1958

MAGMA

MONTANA

DeReMetallica

SCHOOL OF MINES

GEN

ALLEN COUNTY PUBLIC LIBRARY
3 1833 01852 1630

GC
978.602
B98MSM,
1958

Dave Cushing

THE MAGMA

Published by the Associated Students of the
Montana School of Mines

Co-Editor
R. H. Rowe

Co-Editor
W. Brown

Dr. Edwin G. Koch

Dedication

We, the editors of the 1958 Magma, dedicate this book to our President, Dr. Edwin G. Koch. Dr. Koch is well known to the student body as being former Head of the Chemistry Department. In this, his first year as President, Dr. Koch has initiated many new policies which have been well received by the students.

R. Rowe and W. Brown, Editors

MONTANA SCHOOL OF MINES

BUTTE, MONTANA

OFFICE OF THE PRESIDENT

December 9, 1957

To the Students of Montana School of Mines:

Another year has passed and in passing has recorded much in accomplishment, in progress, in change of status. For each of you the record is different, but for all of you there has been the satisfaction of living in a dynamic era.

This past year has been one of improved organization, improved understanding, and a marked revitalization of the ASSM in its role of student government. The student council can feel justly proud of its many accomplishments in the interest of the students on our campus. Such accomplishments don't just happen; they are created through hard work and attention to the many problems wanting solution. Boys grow into men under the stress of responsibility.

This Magma forms a partial history of the year just concluded, that part which deals with people, classes, organizations, and activities. It is a book you will cherish for the rest of your lives; it will be fondly reviewed countless times as the years pass following graduation, each time bringing back in sharp retrospect the year 1957-58 at Montana School of Mines.

To the Seniors I wish bon voyage. Remember always, wherever you go, whatever you do, your Alma Mater is proud of your attainments and holds you dear in its heart.

Cordially yours,

Edwin G. Koch

Edwin G. Koch
President

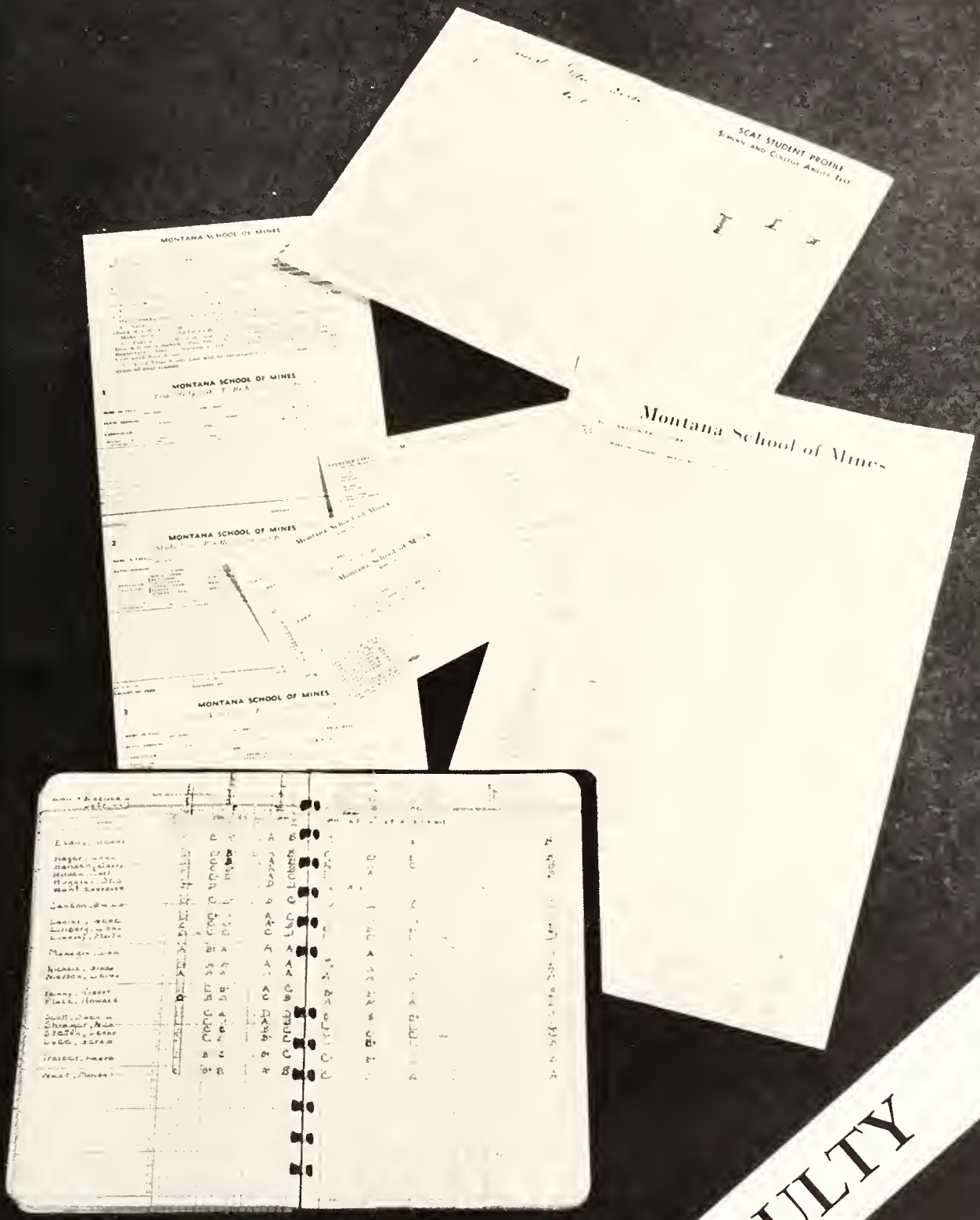
EGK:lh

Student Council

Front row, left to right: D. Diekman, Secretary-treasurer; G. Lanier, President; P. Butler, Vice-president; back row: T. Martin, Delegate; L. Darsow, Student Manager; R. Wylie, Delegate.

Hall Council

Front row, left to right: D. Johnson, Secretary-treasurer; G. Parker, President; D. Roberts, Vice-president; back row: D. Cushing, Delegate; D. Rovig, Delegate; R. Banghart, Delegate; R. Evans, Delegate.


SCAT STUDENT PROFILE
MONTANA SCHOOL OF MINES
MONTANA SCHOOL OF MINES
MONTANA SCHOOL OF MINES
MONTANA SCHOOL OF MINES
Montana School of Mines

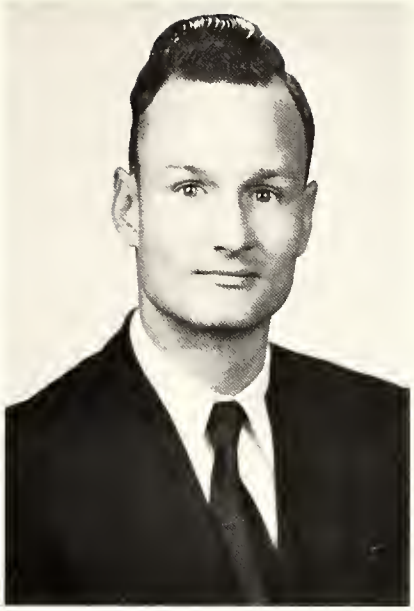
FACULTY

James H. Albertson
Associate Professor of English

Bahngrell W. Brown (Dr.)
Associate Professor and Head, Dept. of Geology

W. Milton Brown
Registrar
Business Manager

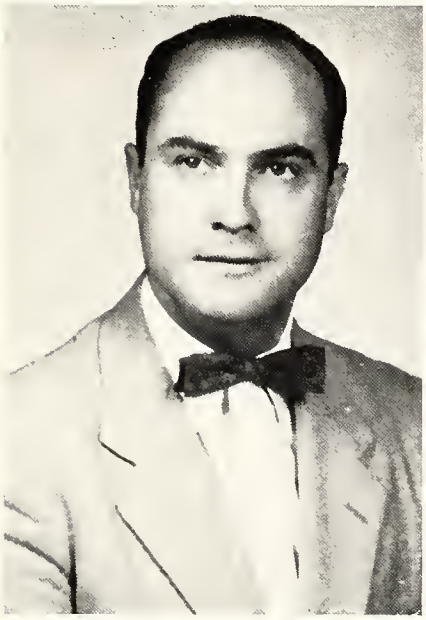
William W. Chance
Associate Professor of English



Willard E. Cox
Instructor in Geology

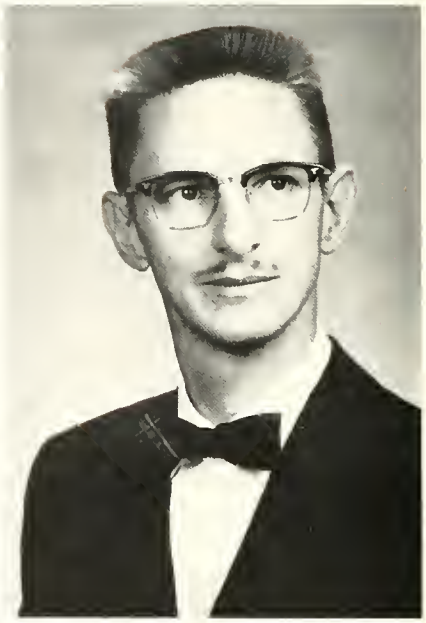
Harry J. Christoffers
Assistant Professor of Chemistry

Fred N. Earll (Dr.)
Assistant Professor of Geology



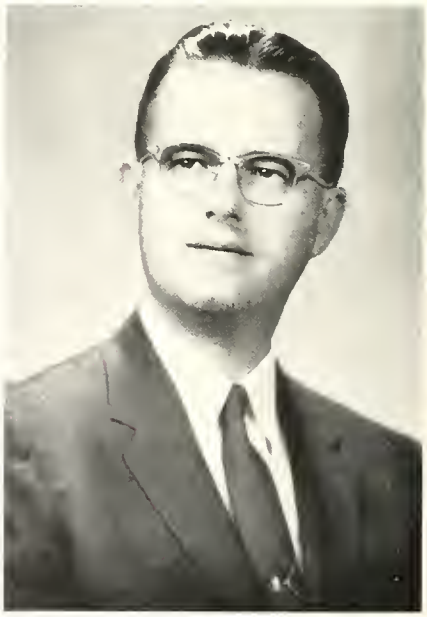
Joseph W. Duroux
Assistant Professor of Mathematics

Douglas H. Harnish, Jr.
Associate Professor and Head, Dept. of Petroleum Engineering

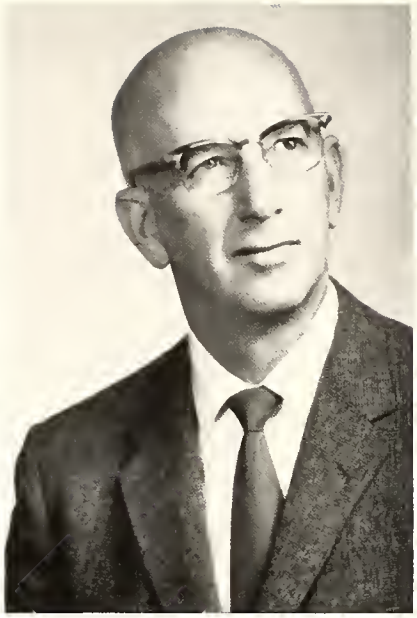


Charles W. Haynes (Dr.)
Associate Professor and Head, Dept. of Metallurgy

Morris I. Kaufmann
Assistant Professor of Mechanics

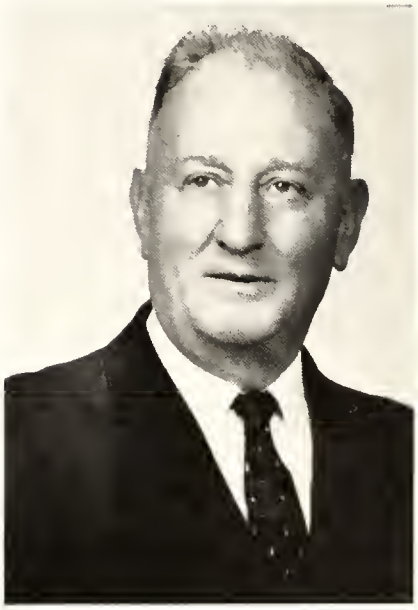


Frank H. Kelly
Assistant Professor of Economics



George D. MacDonald
Assistant Professor of Chemistry

Clifford W. Laity
Professor of History and Head, Dept. of Humanities and Social Studies

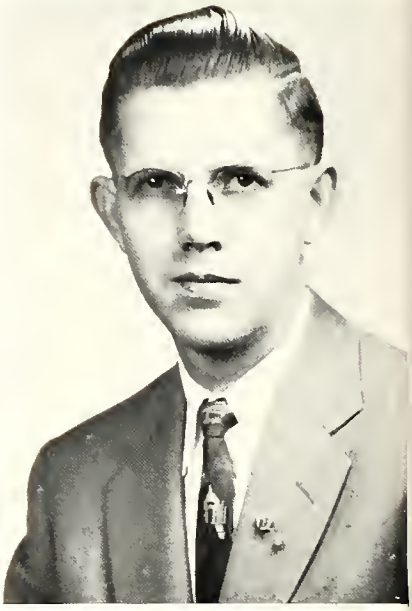


D. Charles McAuliffe
Vice-president, Dean of College

Walter S. March, Jr.
Professor of Geology, Associate Director Bureau Mines and Geology

Louise L. McBride
Assistant Professor of Languages, Advisor to Women Students

Donald W. McGlashan
Research Professor and Head, Dept. of Mineral Dressing

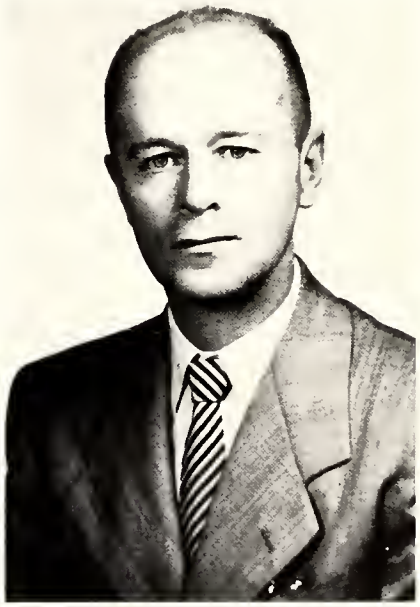


John G. McCaslin
Assistant Professor of Physics

Kenneth N. McLeod (Dr.)
Professor and Head, Dept. of Chemistry

Stephen W. Nile (Dr.)
Professor and Head, Dept. of Physics

Loretta B. Peck
Librarian
Associate Professor



Dale E. Pinckney
Assistant Professor of Social Studies

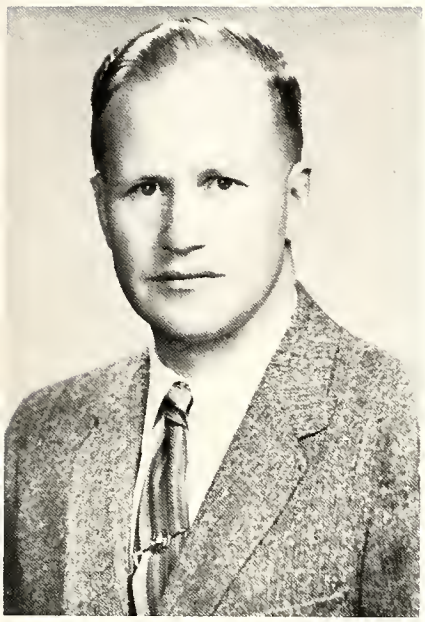
Margaret Sarsfield
Instructor in P. E. for Women

Elizabeth S. Satter
Assistant Professor of Mathematics

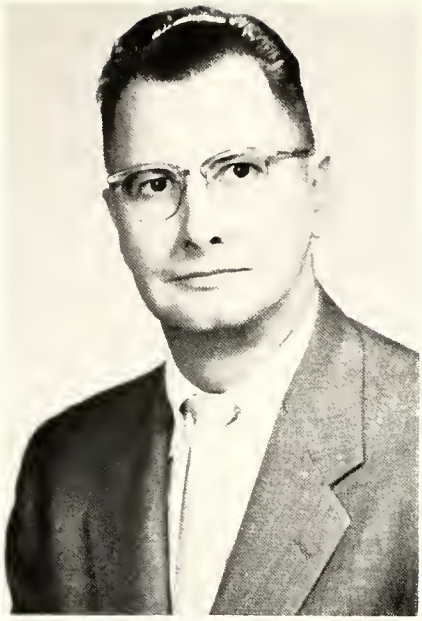
Edward F. Simonich
Assistant Professor, Director of Athletics, Coach

Ralph I. Smith
Associate Professor of Metallurgy

Gustav Stolz, Jr.
Assistant Professor of Petroleum Engineering



Koehler S. Stout
Assistant Professor of
Mining Engineering



William A. Vine
Professor and Head, Dept.
of Mining Engineering

Sergio Zaderenko (Dr.)
Associate Professor and
Head, Dept. of Mechanics

Not Pictured
Adam J. Smith (Dr.)
Professor and Head, Dept.
of Mathematics

Retired
L. Vincent Mead
Associate Professor of
Mathematics

In Memoriam

Professor George Harmon

Mr. Harmon started his MSM career in 1947 and taught the following courses: Physics, Electronics, Applied Electricity, Strength of Materials, Hydraulics, and Physical Thermodynamics. Although quiet and unassuming, his accomplishments were many. He was active in both civic and professional affairs. He will long be remembered by those who were associated with him.

dA
x'
y
θ
x
$I_{x'} = \int y^2 \cos^2\theta \, dA - 2\int xy \cos\theta \sin\theta \, dA + \int x^2 \sin^2\theta \, dA.$
$I_{x'} = \cos^2\theta \cdot I_x + \sin^2\theta \cdot I_y - 2\cos\theta \sin\theta \left(\int xy \, dA\right).$
$\therefore \; I_{x'} + I_{y'} = I_x + I_y$
CLASSES

Graduate Students

Geology

Francis A. Crowley
Butte, Montana; B.S. Geological Engineering, Montana School of Mines; Graduate Assistantship 1957-58, Member of Theta Tau Fraternity, Anderson-Carlisle Society; Vice-president of ASSM 1954.

David H. Dahlem
Los Angeles, California; B.S. in Geological Engineering, Montana School of Mines; Teaching Fellowship; Member of AIME.

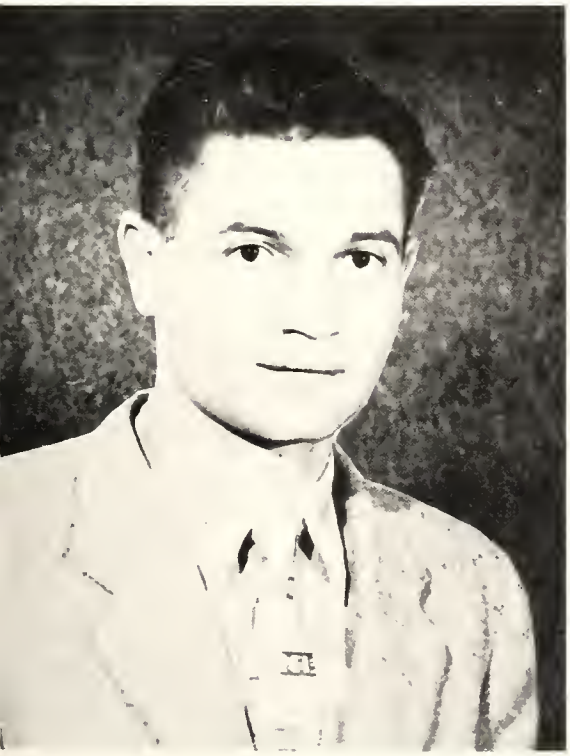
Willis M. Johns
Spokane, Washington; B.S. Geological Engineering, Montana School of Mines.

Kirk W. Stanley
College, Alaska; B.S. Geology, University of Alaska School of Mines.

Hernando C. Arauco
Lima, Peru; B.S. Chemical Engineering, Universidad Nacional Mayor de San Marcos, Lima; Member of Theta Tau Fraternity.

Prabhakar M. Deshpande
Nagpur, India; B.S. Geology and Chemistry, University of Nagpur.

Theodore S. Jordan
Butte, Montana; B.S. Mineral Dressing, Montana School of Mines; Member of Sigma Rho Fraternity; Chancellor and Viceroy of Copper Guards; Honor Roll.



Andrew L. Mular
Butte, Montana; B.S. Metallurgy, Montana School of Mines; Member of Sigma Rho Fraternity; Fellowship in Mineral Dressing; A. S. & R. Scholarship; Honor Roll; Intramurals.

Mineral Dressing

Esfandiar Saeed
Tajrish, Tehran, Iran; B.S. Mining Engineering, Tehran University; Vice-president of the M.S.M. International Club.

Hipolito Zevallos
Lima, Peru; B.S., Universidad Nacional Mayor de San Marcos, Lima.

Miguel A. Carrizales
Lima, Peru; B.S., Universidad Nacional Mayor de San Marcos, Lima; President of the M.S.M. International Club.

Dej. Tewtong
Bangkok, Thailand; B.S. Mining, Chulalongkorn University, Thailand.

Mining

George L. Wilhelm
Santa Rosa, California; B.S. Mining, Montana School of Mines.

Metallurgy

Alfonso P. Zuzunaga
Arequipa, Peru; B.S. Chemical Engineering, San Marcos University, Lima, Peru; Member of the A.I.M.E.; Cerro De Pasco Corporation Scholarship.

Senior Class Officers

Jon E. Langfeldt
President

Donald A. Hendricks
Vice-president

Donald R. Schweitzer
Secretary-treasurer

Seniors

Seniors—Geology

Duane Allen Diekman
Lewistown, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society; Secretary-treasurer of ASSM, 1957-58, Secretary-treasurer of M Club; Football.

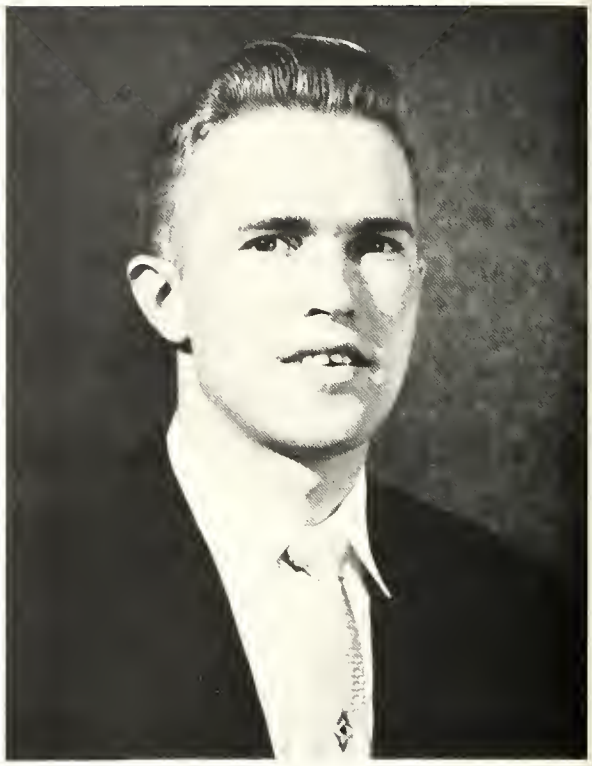
David S. Johnson
Billings, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Magma, Amplifier; Secretary of Residence Hall Council, Theta Tau Building Fund Chairman; Intramurals.

William James Borzick
Butte, Montana; Member of Sigma Rho Fraternity.

Leonard Walter Boyd, Jr.
Butte, Montana; Junior Member of A.I.M.E., A.S.M.; MSM Honor Scholarship, A.S.M. Scholarship; Honor Roll six semesters.

Charles Theodore Burtch
Polson, Montana; Member of M Club; Vice-president of Metallurgy Section of the Anderson-Carlisle Society; Football.

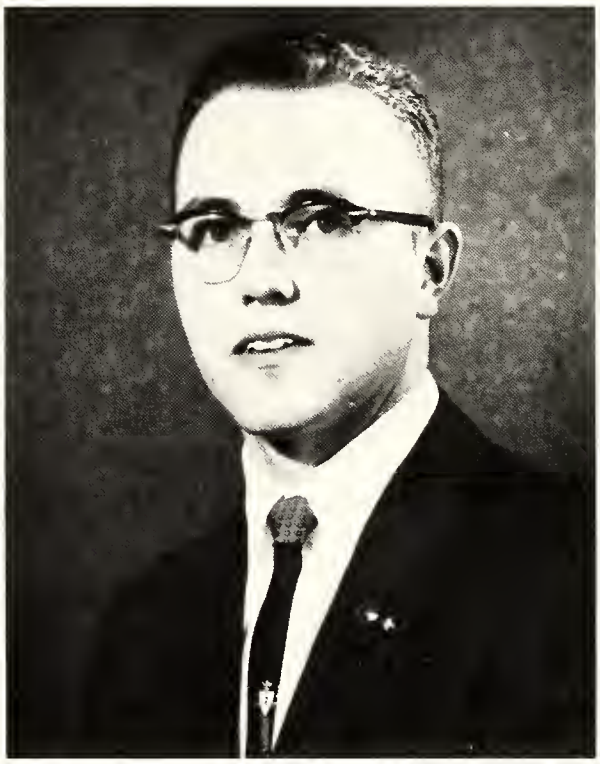
Roger Nels Dokken
Shelby, Montana; Member of Copper Guards, Anderson-Carlisle Society, Mineral Club; President of Junior Class; MSM Advanced Honor Scholarship, A. S. & R. Scholarship in Metallurgy; Honor Roll seven semesters; Intramurals.



Kenneth Ray Evans
Billings, Montana; Member of Anderson-Carlisle Society, M Club, A.S.M.; Viola Vestal Coulter Scholarship; Honor Roll one semester; Basketball.

Barry John Hansen
Anaconda, Montana; Member of Sigma Rho Fraternity, Anderson-Carlisle Society; Vice-president of Sophomore Class, Expansion Officer of Copper Guards; Intramurals.

Russell Everett Hoar
Butte, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society; Corresponding Secretary of Theta Tau; Honor Roll one semester; Intramurals.



Jack August Jones
Anaconda, Montana; Member of Sigma Rho Fraternity, Anderson-Carlisle Society, A.S.M.; Business Manager of Amplifier.

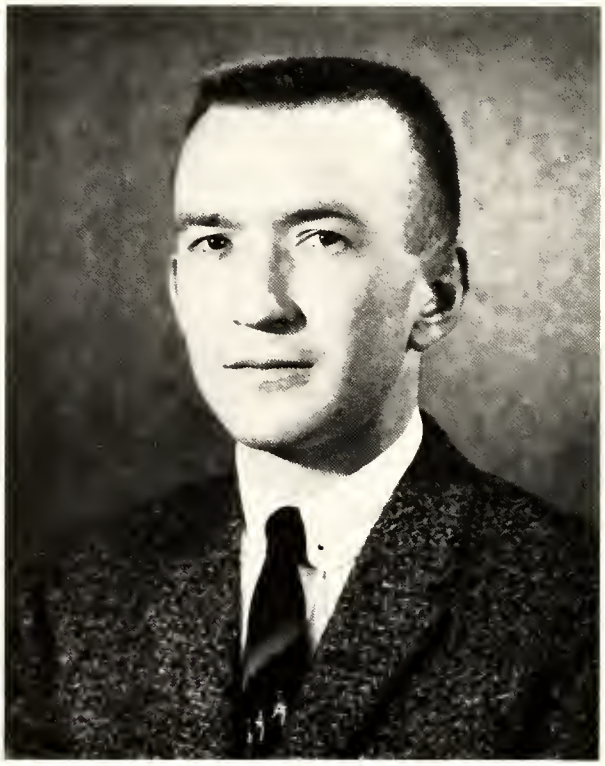
Jon Edward Langfeldt
Great Falls, Montana; Member of Sigma Rho Fraternity, Anderson-Carlisle Society; President Senior Class, Vice-president Junior Class, Secretary Sophomore Class, Scribe of Sigma Rho; Honor Roll two semesters; Intramurals.

Donald Edward Macknight
Great Falls, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, M Club; Vice-president Junior Class, Scribe of Theta Tau; A.I.M.E. Woman's Auxiliary Scholarship; Honor Roll one semester; Hockey.

Arlan Edward Rathke
Hamilton, Montana; Member of Theta Tau Fraternity, American Society for Metals; Honor Roll two semesters; Intramurals.

Raymond William White
Butte, Montana; Member of Anderson-Carlisle Society, A.S.M.; Honor Roll two semesters.

John Patrick Hager
Big Timber, Montana; Member of Anderson-Carlisle Society, Newman Club, Copper Guards; A.S.M. Scholarship in Metallurgy; Honor Roll two semesters.



Harold Bruce Treweek
Great Falls, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, M Club; Editor of Amplifier, Delegate of Student Council, President of Sophomore Class; Honor Roll one semester; Baseball, Hockey.

Donald Edwin Zipperian
Great Falls, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Copper Guards; Coulter Foundation Scholarship; Honor Roll one semester; Golf, Intramurals.

Milton John Barnett
Boise, Idaho; Member of Theta Tau Fraternity, Anderson-Carlisle Society; Honor Roll one semester; Football, Tennis.

Robert Lewis Hall
Deer Lodge, Montana; Member of Sigma Rho Fraternity, Glee Club, Mineral Club; President and Vice-president of Anderson-Carlisle Society; Football.

Donald Albert Hendricks
Des Moines, Iowa; Member of Sigma Rho Fraternity; Vice-president Senior Class, Vice-Archon and Treasurer of Sigma Rho, Secretary-treasurer of Anderson-Carlisle Society; Gardner-Denver Mining Scholarship; Honor Roll six semesters; Intramurals.

George T. Krempasky
Peckville, Pennsylvania.

William Gordon Lees
Kimberley, B. C., Canada; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Amplifier; Co-editor of De Re Metallica; Golf, Intramurals.

Thomas William Martin
Harrisburg, Pennsylvania; Member of Sigma Rho Fraternity, Anderson-Carlisle Society, M Club; Delegate to Student Council; Football.

Gordon Rae Parker
Capetown, South Africa; Member of Sigma Rho Fraternity, Magma, Amplifier, Debate, Dramatics; Chairman of Hall Council, President of Anderson-Carlisle Society; Tsumeb Corporation, Ltd., Scholarship; Honor Roll; Golf, Intramurals.

Donald R. Schweitzer
Milwaukee, Wisconsin; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Magma; Secretary-treasurer of Senior Class; Intramurals.

William Ross Wayment
Butte, Montana; Member of Sigma Rho Fraternity, M Club, Amplifier; Vice-president of Mining Section of Anderson-Carlisle Socity, Archon of Sigmi Rho; A. S. and R. Minng Scholarshp; Honor Roll six semesters; Hockey, Football, Intramurals.

George Miller Blumfield
Great Falls, Montana; Member of Sigma Rho Fraternity, M Club, Anderson-Carlisle Society; Sgt. at Arms of Sigma Rho; Hockey, Baseball, Intramurals.

William Gordon Brown
East Glacier Park, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Junior member of A.I.M.E., Amplifier, De Re Metallica; Editor of Magma.

Patrick John Butler
Billings, Montana; Member of Theta Tau Fraternity, M Club, Copper Guards, Mineral Club; Vice-president of Student Council, Secretary Junior Class, Treasurer of Theta Tau; Rotary Club Scholarship; Honor Roll two semesters; Basketball, Intramurals.

Robert Howard Darlington
Butte, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society; Honor Roll one semester.

Leonard A. Darsow
Libby, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, M Club; President of M Club, Vice-regent of Theta Tau; Football, Intramurals.

John Phinis Hunter
Calgary, Alberta, Canada; Member of Theta Tau and Sigma Phi Epsilon Fraternities, Anderson-Carlisle Society; Scribe of Theta Tau; Hockey, Basketball, Track, Golf.

Gene A. Lanier
Polson, Montana; Member of Sigma Rho Fraternity, Anderson-Carlisle Society; President and Secretary of Student Council, Vice-president of M Club, Duke of Copper Guards, Honorary Football Co-captain; Football, Intramurals.

Aurelio Madrazo
Butte, Montana; Member of Theta Tau Fraternity, Copper Guards, Band, Anderson-Carlisle Society; Gina Diamante Scholarship and Mobil Oil Scholarship; Honor Roll three years; Intramurals.

Donald John Ogrin
Great Falls, Montana; Member of Sigma Rho Fraternity, M Club, Anderson - Carlisle Society; Hockey, Football.

Robert Henry Rowe
Butte, Montana; Member of Theta Tau Fraternity, Anderson-Carlisle Society, Junior member of A.I.M.E., Journalism; Vice-president of M Club, Regent and Corresponding Secretary of Theta Tau, Editor of Magma; Rotary Club Scholarship; Honor Roll one semester; Football, Intramurals.

Glenn Charles Shurtz
Butte, Montana; Member of Theta Tau Fraternity, M Club; Honor Roll one semester; Football, Baseball.

Lawrence E. Treiber
Billings, Montana; Member of Sigma Rho Fraternity, Anderson-Carlisle Society, Copper Guards; Vice-Archon of Sigma Rho; Mobil Producing Scholarship; Honor Roll two semesters; Intramurals.

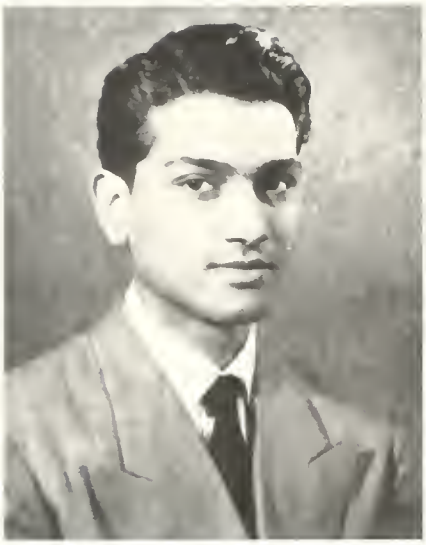
Junior Class Officers

Donald R. Corson
President

George M. Maxwell
Vice-president

Albert R. Ruie
Secretary-treasurer

Juniors



Javaid M. Alvi
Gujranwala, Pakistan

James P. Connell
St. Louis, Missouri

Geology

Donald R. Corson
Bigfork, Montana

David G. Rasmussen
Missoula, Montana

Allen A. Sawitke
Willoughby, Ohio

Peter H. Sweeney
Butte, Montana

Geology

Alfred E. Trimble
Eugene, Oregon

Robert P. Wylie
Bozeman, Montana

Gary D. Alexander
Mt. Vernon, Washington

Curtis F. Bates
Anaconda, Montana

Metallurgy

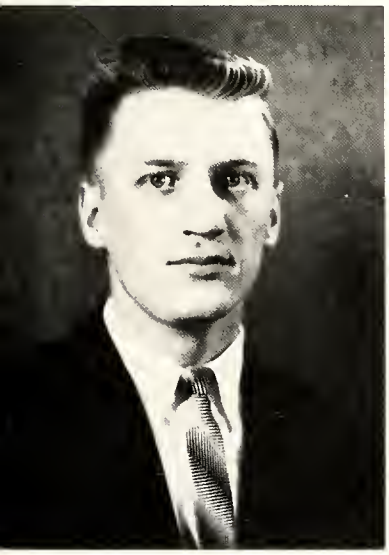
James F. Donovan
Anaconda, Montana

David S. Malyevac
Butte, Montana

George M. Maxwell
Warm Springs, Montana

Eldon J. Nicholson
Great Falls, Montana

Metallurgy



Carl A. Plate
Butte, Montana

Richard W. Roberts
Anchorage, Alaska

Jerome A. Yopps
Waukesha, Wisconsin

Johannes P. Dreyer
Kamieskroon, South Africa

Ronald L. Nordwick
Wolf Point, Montana

Mineral Dressing

William H. Painter
Livingston, Montana

Albert R. Rule
Butte, Montana

Gordon F. Zeising
Union, New Jersey

Richard W. Banghart
Greenwich, Connecticut

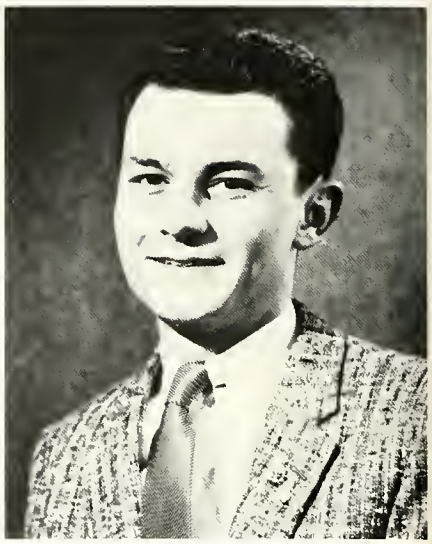
Mohammad A. Mahtab
Sargodha, Pakistan

Mining

James D. Wallace
Livingston, Montana

Albert C. Walkup
Philipsburg, Montana

Joseph H. Bato
Butte, Montana

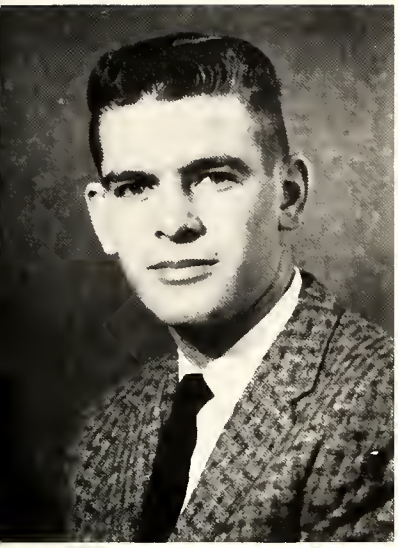


Gus B. Coolidge
Sunburst, Montana

Petroleum

Richard L. Coppage
Redding, California

Alan R. Kerr
Great Falls, Montana



Lilburn H. Lueck
Ennis, Montana

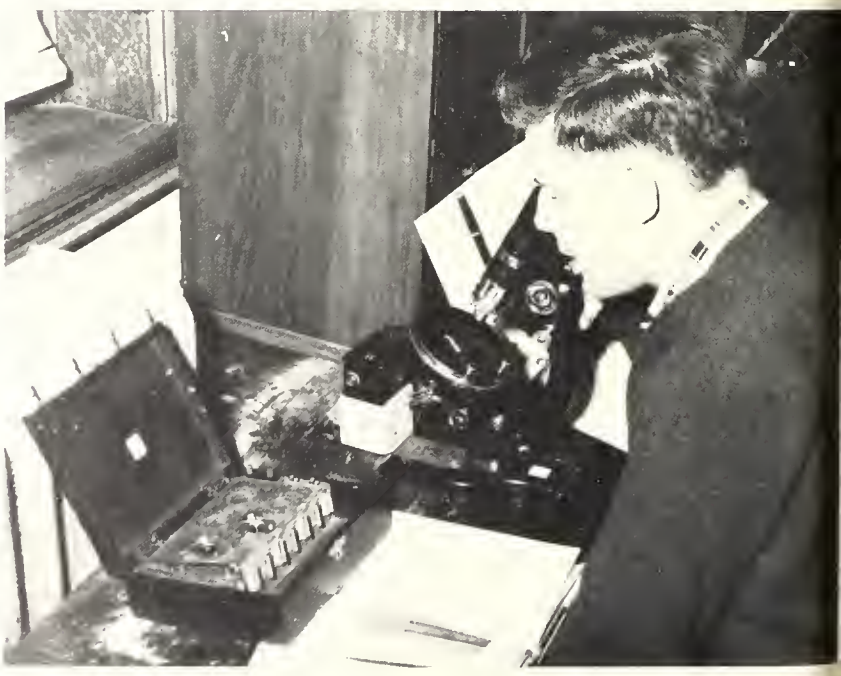
Richard D. Osterman
Black Eagle, Montana

Petroleum

Claud F. Pickard
Miles City, Montana

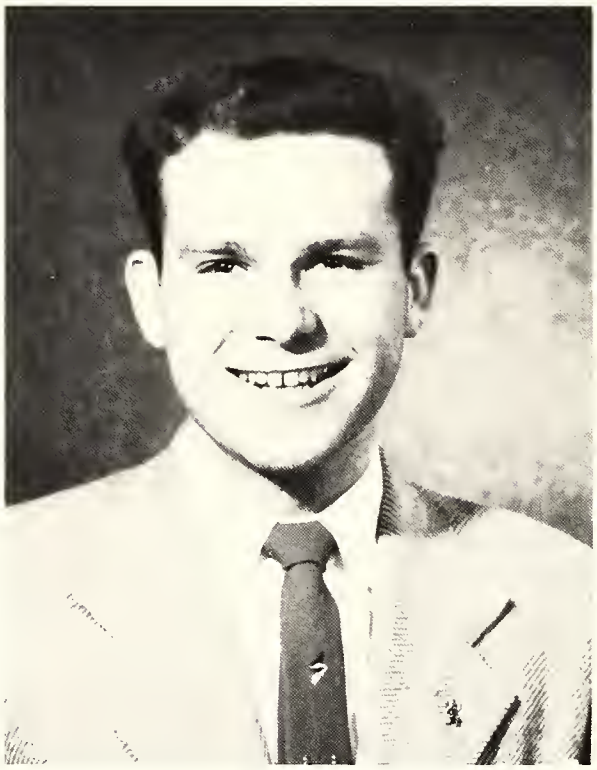
Coffee Time

But I don't like smoke.



Dear Sir: Your horse has . . .

Sophomore Class Officers



John H. Templin
President

Helen E. Duke
Secretary-treasurer

Sophomores

Richard F. Brady

Donald A. Bray

William R. Byrne

Graham C. Cadwell

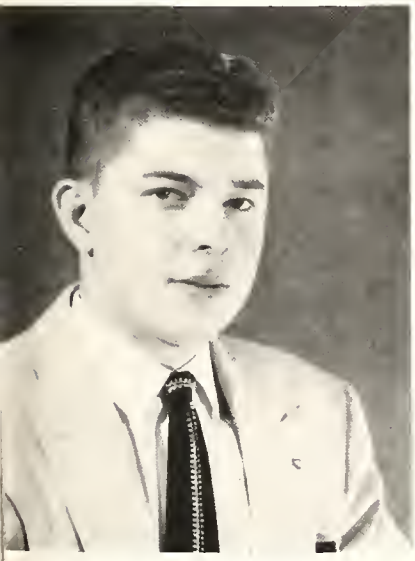
Wei-Hsuan Chiang

Eugene A. Deptuch

Darrel D. Day

Helen E. Duke

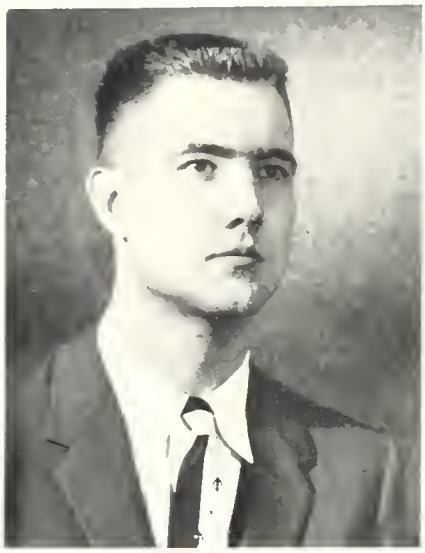
Walter I. Enderlin



Edward J. Erickson

Kenneth H. Erickson

Michael M. Freebourn



Robert W. Garey

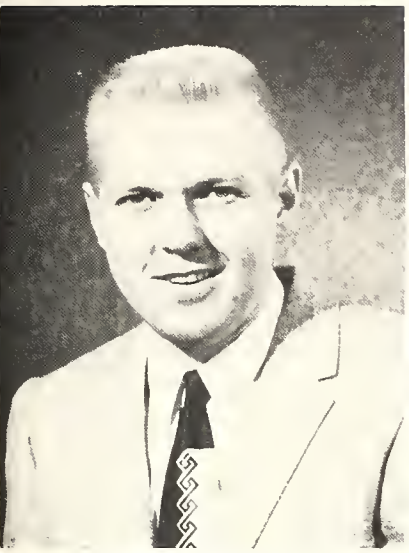
George A. Grandy

William Haber

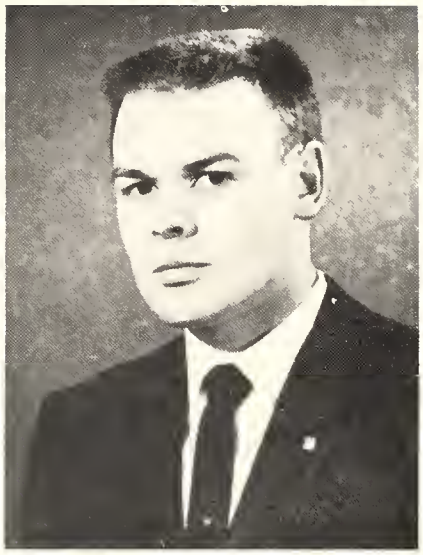
Kelly P. Hemmert

Robert W. Hoy

Don C. Lawson

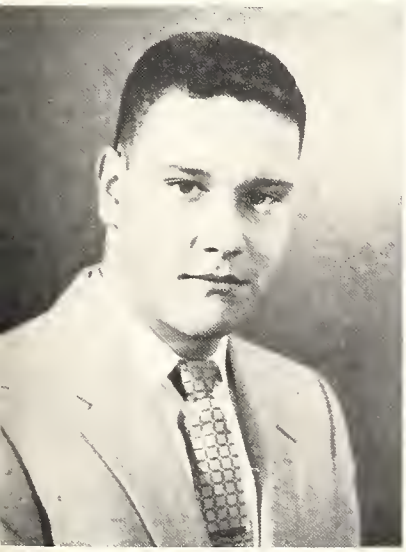


Alec E. Lindquist



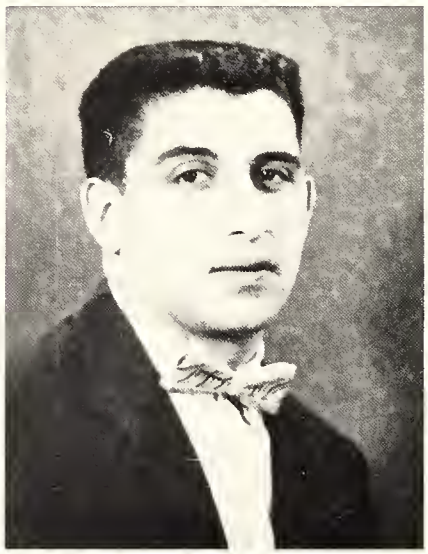
Michael R. Maddocks

Donald E. Mahagin

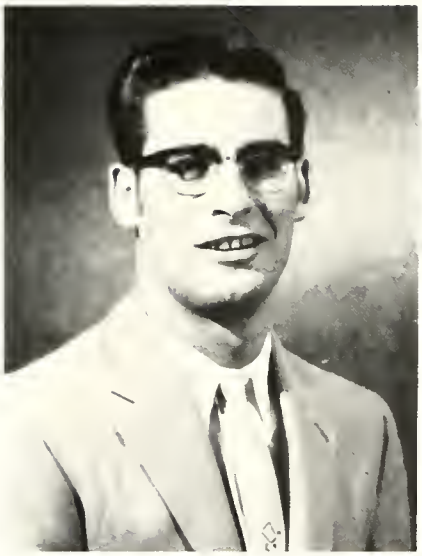


Malcolm A. McKinnon

Donald J. McMillan



Robert T. Rask



Gary W. Riley

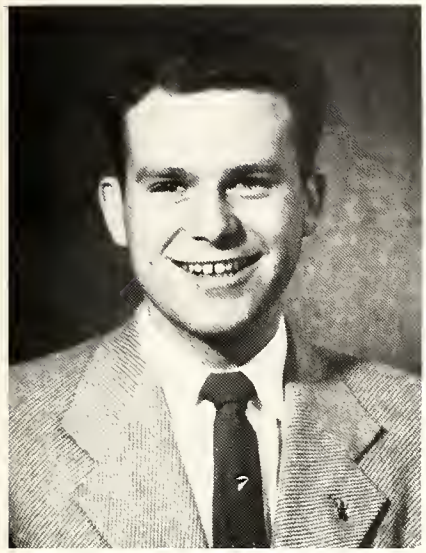
Donald K. Roberts

Frank E. Ross

Allen D. Rovig

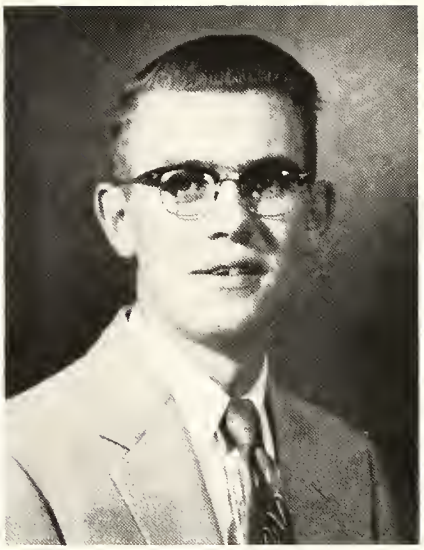
Dale W. Sawitke

Marvin L. Smith



John H. Templin

Richard R. Vincelette



Douglas H. Wadman

Donald P. Williams

Richard L. Willey

"It says right here . . ."

Hysterical Geology?

Morning break, 9 to 12.

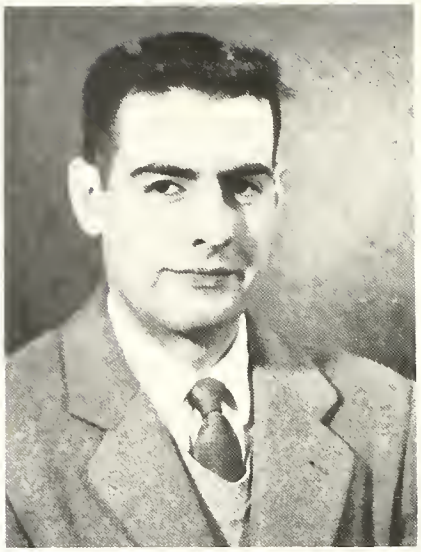
Freshmen Class Officers

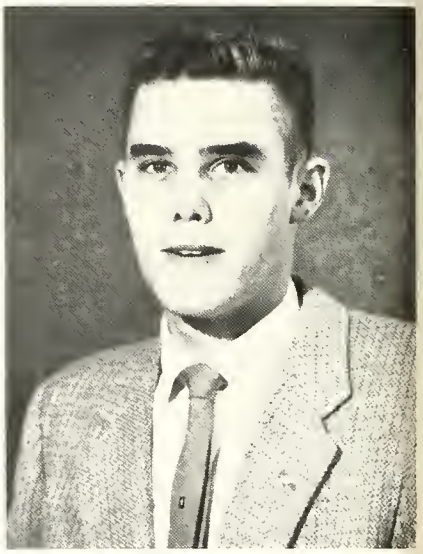
Georgeann Sullivan
President

Jacqueline L. Trythall
Secretary-treasurer

Freshmen

Robert L. Applegate


Ricardo Azocar


Force F. Baney, Jr.

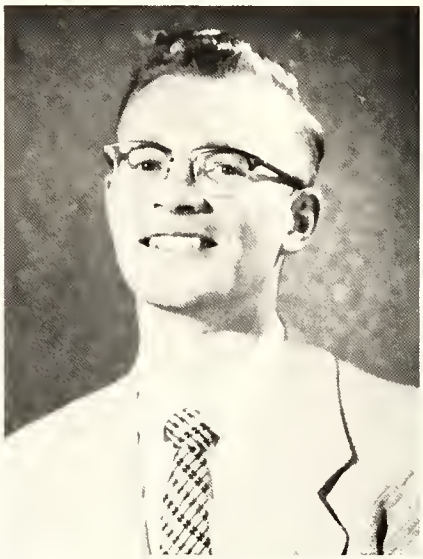
John W. Bennett

Dave P. Cadwell

Alexander L. Chaky

John U. Chellew

Helen G. Christenot


Donald E. Crosley

Robert B. Donaldson

Suzanne K. Dunlap

Julia A. Dwyer

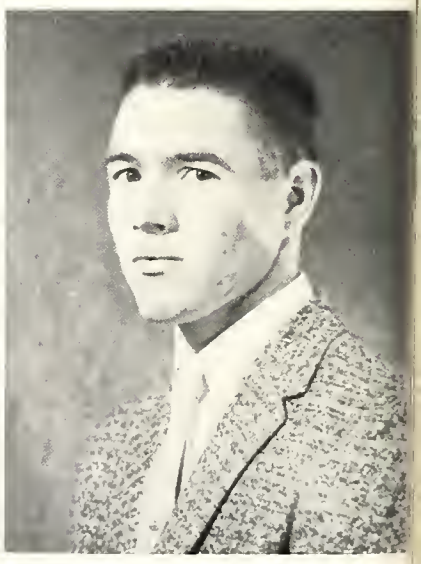
John R. Engstrom

Jose D. A. Estay

Ralph W. Flager

Raymond F. Frederick

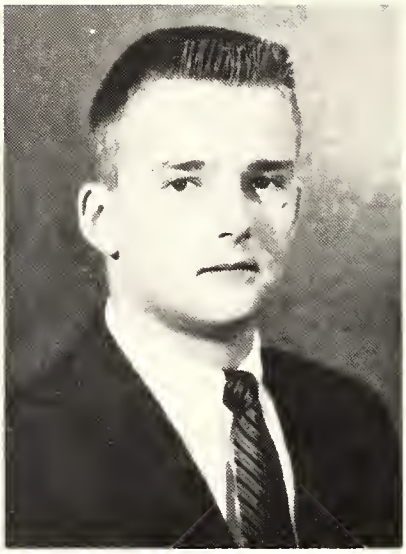
James D. Freebourn



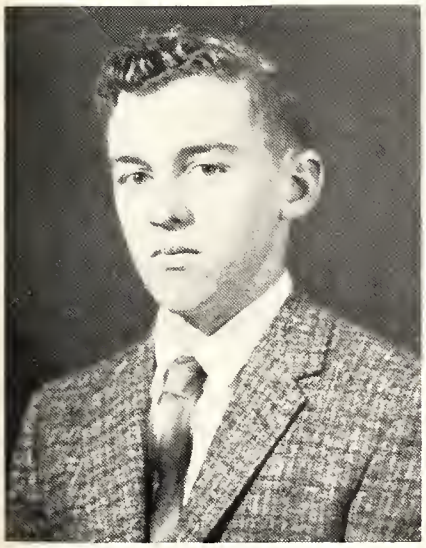
John W. Frisbie

Carol J. Gardner

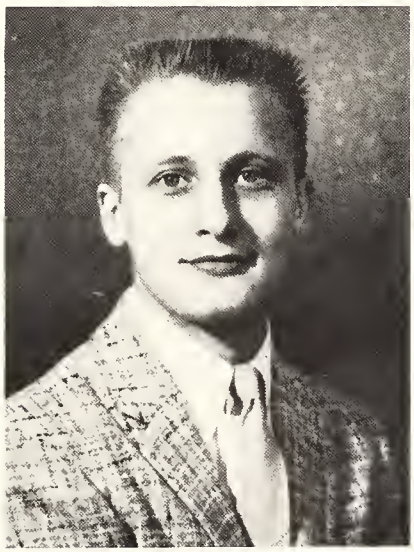
John F. Gardner



William H. Guanell



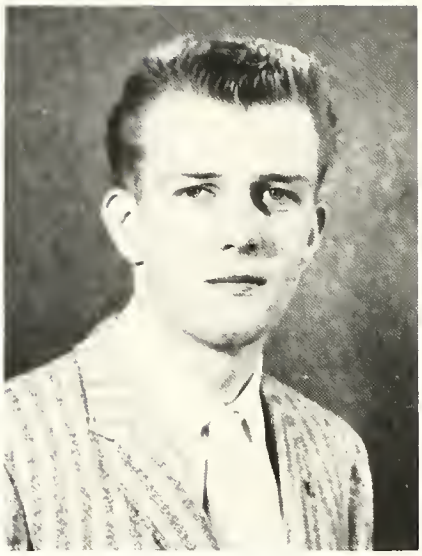
William R. Halvorson



Roger O. Hansen

William K. Horner, Jr.

Leonard R. Judd

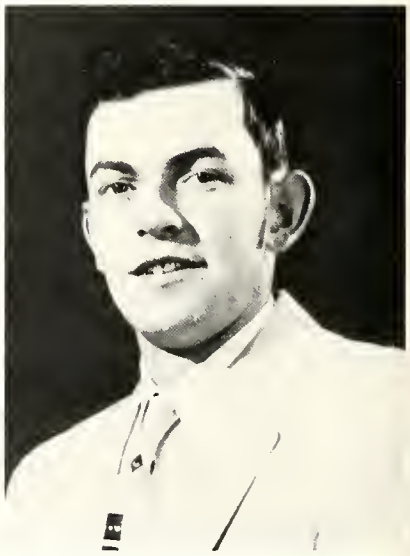


Gay D. Kravik

Laurence F. Kroll

William N. Lindstrom

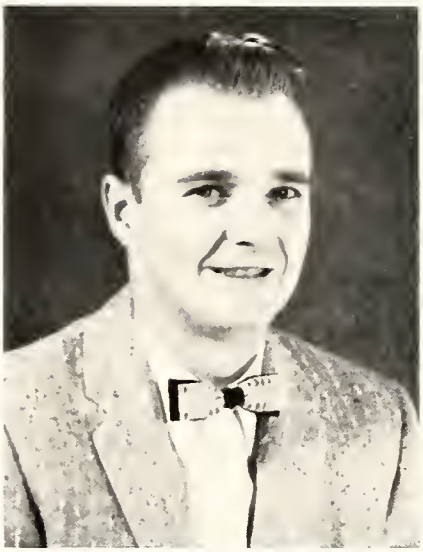
Elizabeth M. McCallum



James J. McCracken

Duane R. McCrorie

Sandra A. McGonigle



James P. McLaughlin

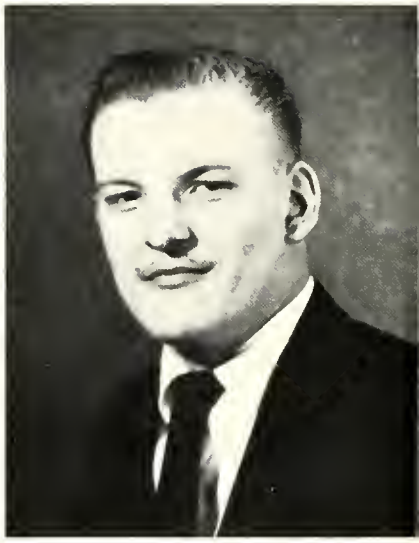
Charles F. McLean

Judy L. McVey

Stanley M. Mikuse

Robert T. Milhous

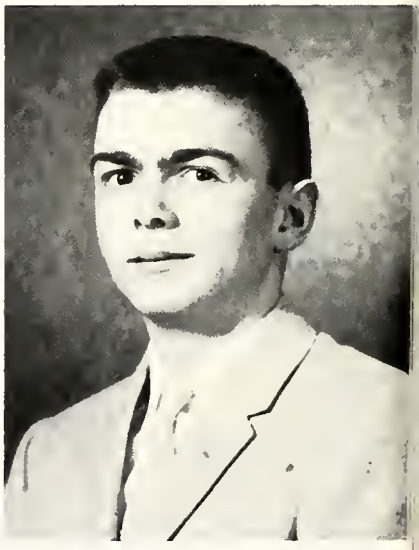
Mohamed S. Mohsin



Alexander Y. Mondlak

Robert J. Murray

William M. Myrhang



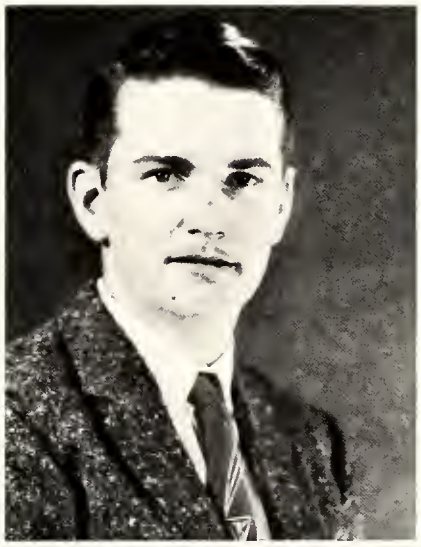
Namon J. Nichols

Lee E. Nordahl

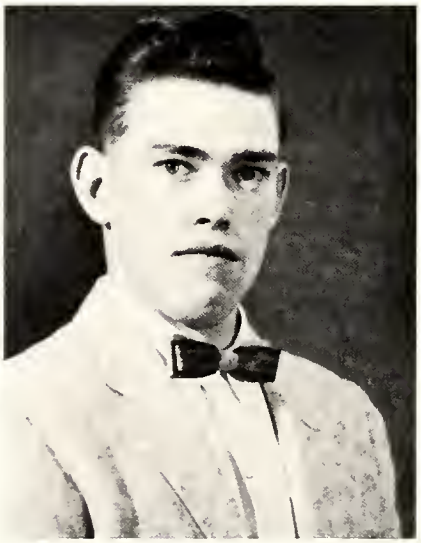
Russell L. Osborn

Donald N. Petersen

Stephen R. Postle

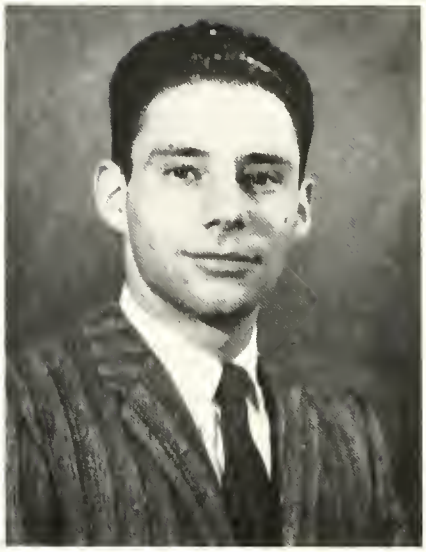


Bennie J. Pratt



Dale T. Rau

Trefor D. Roberts

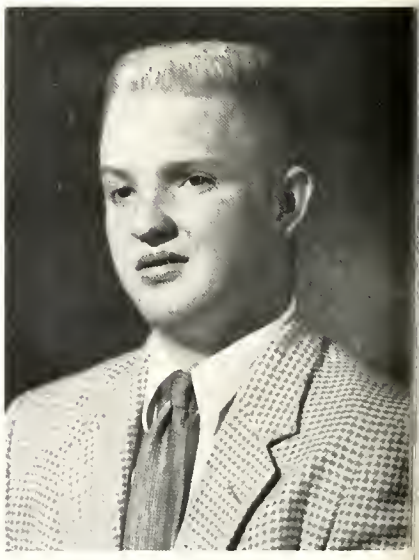


Robert E. Schnell

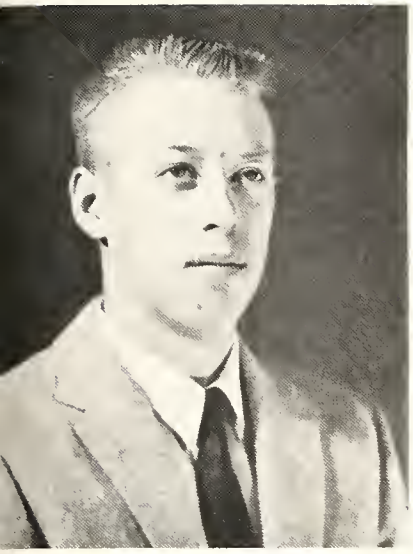
Robert M. Shelden

Earl L. Sherron, Jr.

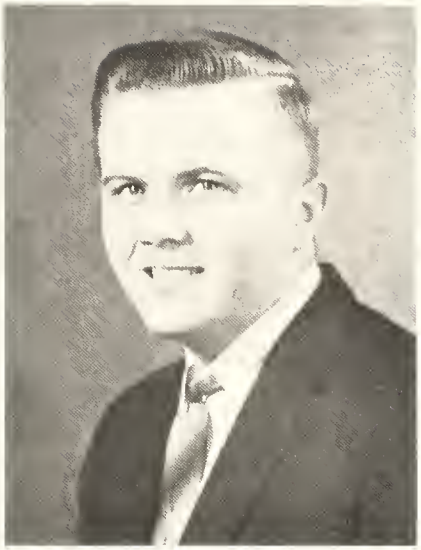
Douglas D. Smart



Edwin L. Speelman



Jerry L. Stordahl



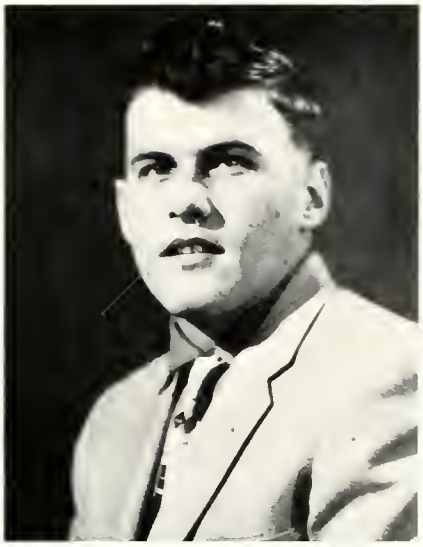
John D. Straight

Georgeann Sullivan

Maribeth Sullivan

Billie E. Todd

Daniel E. Trbovich



John L. Troglia

Jacqueline L. Trythall

Robert E. Warren

ATHLETICS

Football

1957-58 Oredigger Football Team. Front row (left to right): Joe Kilminster (assistant coach), Robert Wylie, Clyde Kelley, Barry Sullivan, Dick Banghart, Al Walkup, Tom Martin, Bob Shelden, Bob Rowe, Dick Coppage, Mohamed Mohsin. Back row: Coach Simonich, Steve Shugrue, Duane McCrorie, Kelly Hemmert, Mike Freebourn, Gary Riley, Don Bechtold, Dan Rovig, Duane Diekman, Dick Davis, Bill Rowe, Dan McCarthy (assistant coach). Not pictured: John Frisbie, Dave Cadwell, Dart Davis, Glenn Shurtz, Len Darsow (manager).

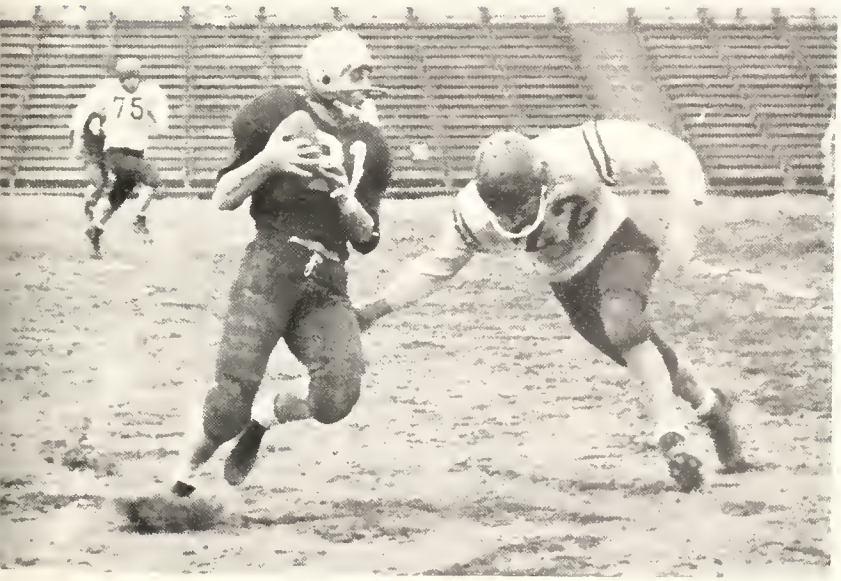
SEASON'S RECORD

M.S.M.	0	M.S.C. Bobkittens	31
M.S.M.	7	M.S.U. Cubs	37
M.S.M.	19	Northern Montana	20
M.S.M.	6	Western Montana	46
M.S.M.	0	Eastern Montana	37
M.S.M.	0	Westminster	90

The 1957-58 football season was one of the most disastrous in M.S.M. history. Although ably mentored by Coach Ed Simonich, the team was weak both in depth and experience, and plagued by Asiatic flu and injuries. Halfback Tom Martin led the Miner offense on the ground with an average of six plus yards per carry, while Quarterback Gary Riley completed 26 passes out of 55 tries to lead the conference. As Coach Simonich stated, "As far as fighting determination on the squad, there's been no equal."

1957-58
Co-Captains
Duane Diekman
Tom Martin

Gary Riley plunges over from the two-yard line to score against the Cubs.



Tom Martin lowers the boom.

Mike Freebourn grabs a slippery one.

Tense moment on the side line.

Who's got the ball?

Not too big!

Fancy footwork.

Banghart intercepts.

Hockey

1957-58 Oredigger Hockey Team. Back row (left to right): Jack Hunter, Stan Mikuse, George Blumfield, Don Macknight, Len Darsow, Larry Nelson, Mel Poad, Ross Wayment, Mike Maddocks, Don Ogrin, Jack Larry, coach. Front row: Ron Nordwick, Harold Treweek, Dan Trbovich, Ken Erickson, Dick Banghart, Al Sawitke, Barry Donaldson, Al McIvor.

SEASON'S RECORD

M.S.M. 4	Copperleafs	8
M.S.M. 5	Copperleafs	9
M.S.M. 7	Copperleafs	17
M.S.M. 7	Copperleafs	4

Hockey was successfully revived at the School of Mines after a lapse of two years. In the limited series with the Butte Civic Center Copperleafs, the Orediggers showed steady improvement and topped the season with a hard-fought 7-4 win. Jack Larry and Ed Simonich coached the team, which was built around a small core of veterans.

Jack Hunter shoots.

Stan Mikuse **shoots the puck** between the legs of Copperleaf goalie, Beanie Park.

Wayment passes to Treweek.

Basketball

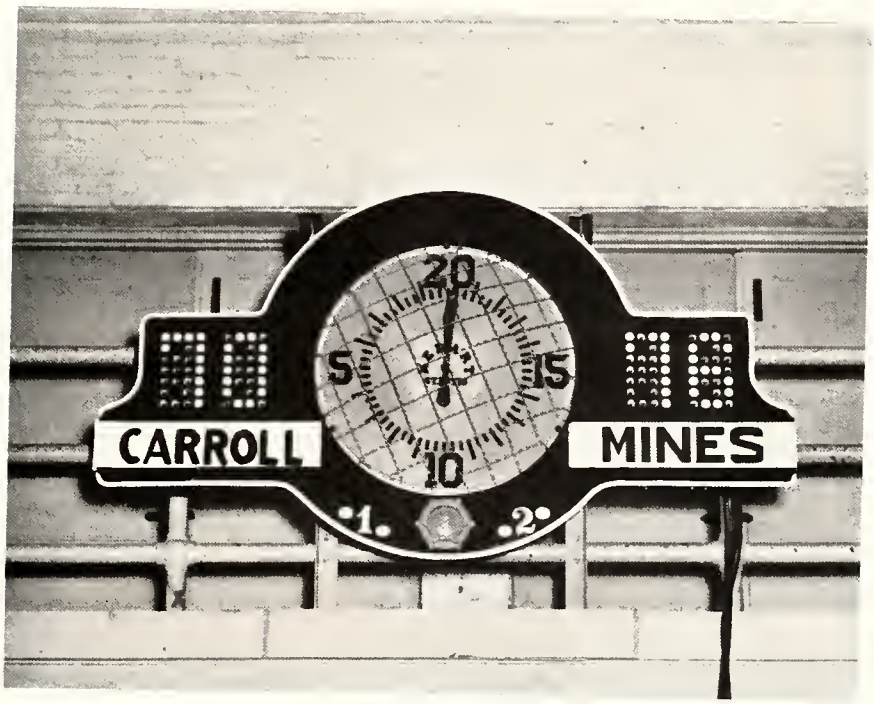
1957-58 Oredigger Basketball Squad. Front row (left to right): Jim Freebourn, Gus Coolidge, Dick Roberts, Lilburn Lueck, Don Rolfe, Leo Belanger. Back row: Len Darsow (manager), Al Kerr, Frank McGee, Don Mahagin, Doug Smart, Mike Freebourn, Jack King, Mel Bennett. Not pictured: Don McMillan, Ron Rickman.

SEASON'S RECORD

M.S.M. 45	Western Montana	87
M.S.M. 43	Western Montana	61
M.S.M. 54	Rocky Mountain	81
M.S.M. 55	Rocky Mountain	93
M.S.M. 62	Eastern Montana	72
M.S.M. 51	Western Montana	89
M.S.M. 76	Carroll College	70
M.S.M. 51	Eastern Montana	68
M.S.M. 44	Northern Montana	59
M.S.M. 62	Carroll College	80
M.S.M. 76	Northern Montana	52
M.S.M. 58	Western Montana	75

A young Miner basketball team, consisting mostly of freshmen and sophomores, showed great improvement from former years. Although lacking in height and experience, the team finished strong, topping Carroll and Northern in the final home games.

Mike Freebourn
1957-58 Captain



Bennett (12)

Rickman (11)

M. Freebourn (21)

Belanger (6)

King (5)

J. Freebourn (4)

Mahagin (9)

McMillan (7)

Roberts (8)

Smart (10)

Lueck (20)

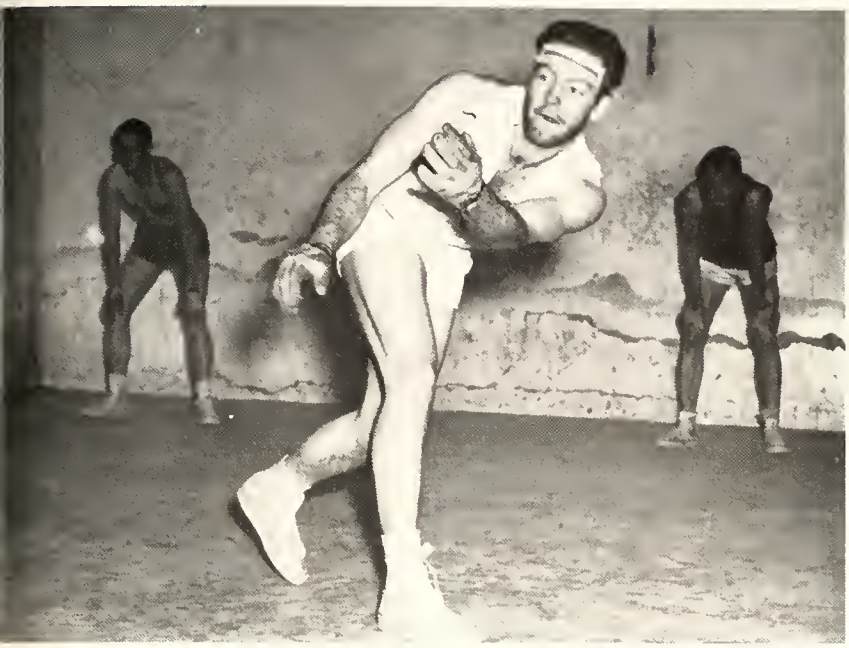
Coolidge (3)

Intramurals

Block That Shot!

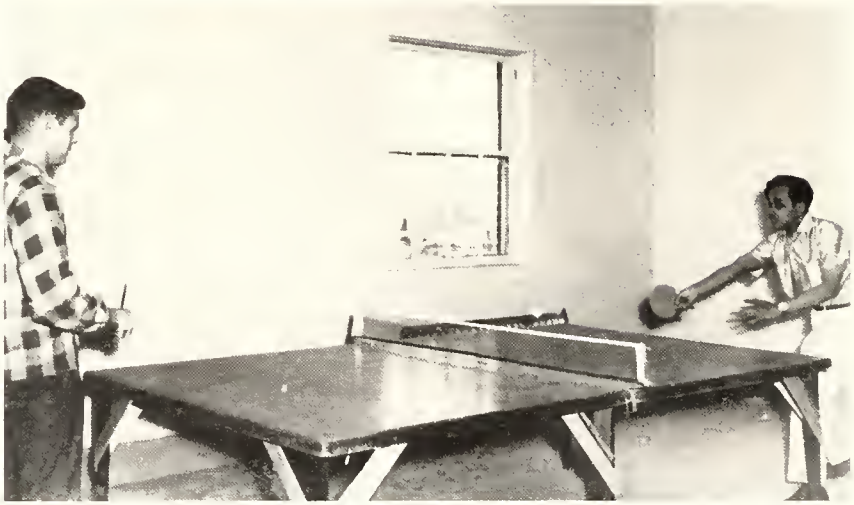
Coach Simonich has launched a sweeping intramural program to provide recreation for every interested student. The schedule includes basketball, touch football, badminton, ping pong, tennis, bowling, horseshoes, boxing, volleyball, wrestling, weightlifting, handball, golf, soccer, and baseball.

Note the Muscles!



A typical, clean-cut handball player.

Tewtong plays ping pong.



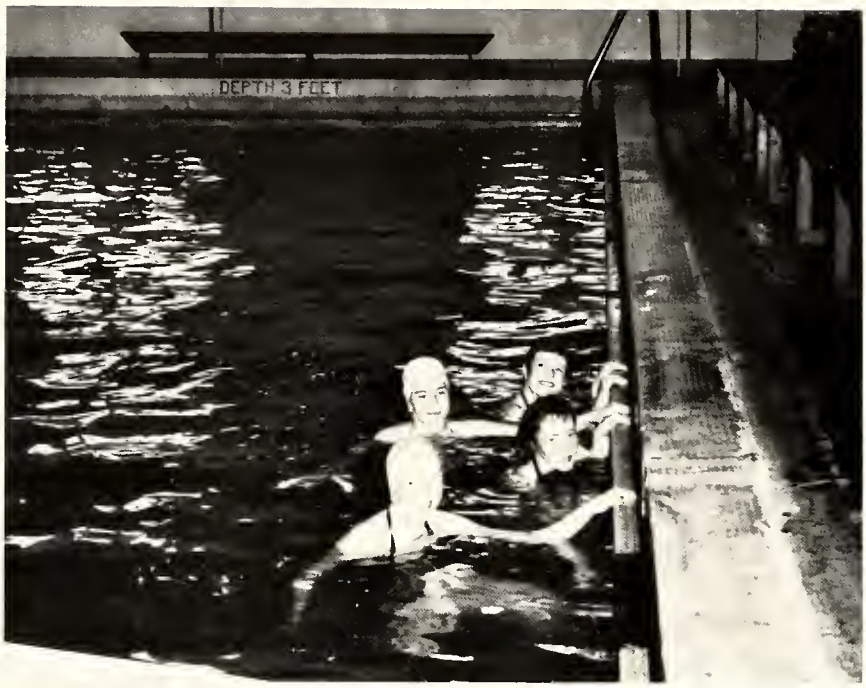
This is basketball?

Come-on, let's stretch those stiff, tired muscles!

Attention, Yankee Scouts!

Up-Up a little bit higher!

This is swimming?



Yea, Johnny!

This is not swimming.

Which month is that?

Sign me up.

Your move, Bunky.

ORGANIZATIONS

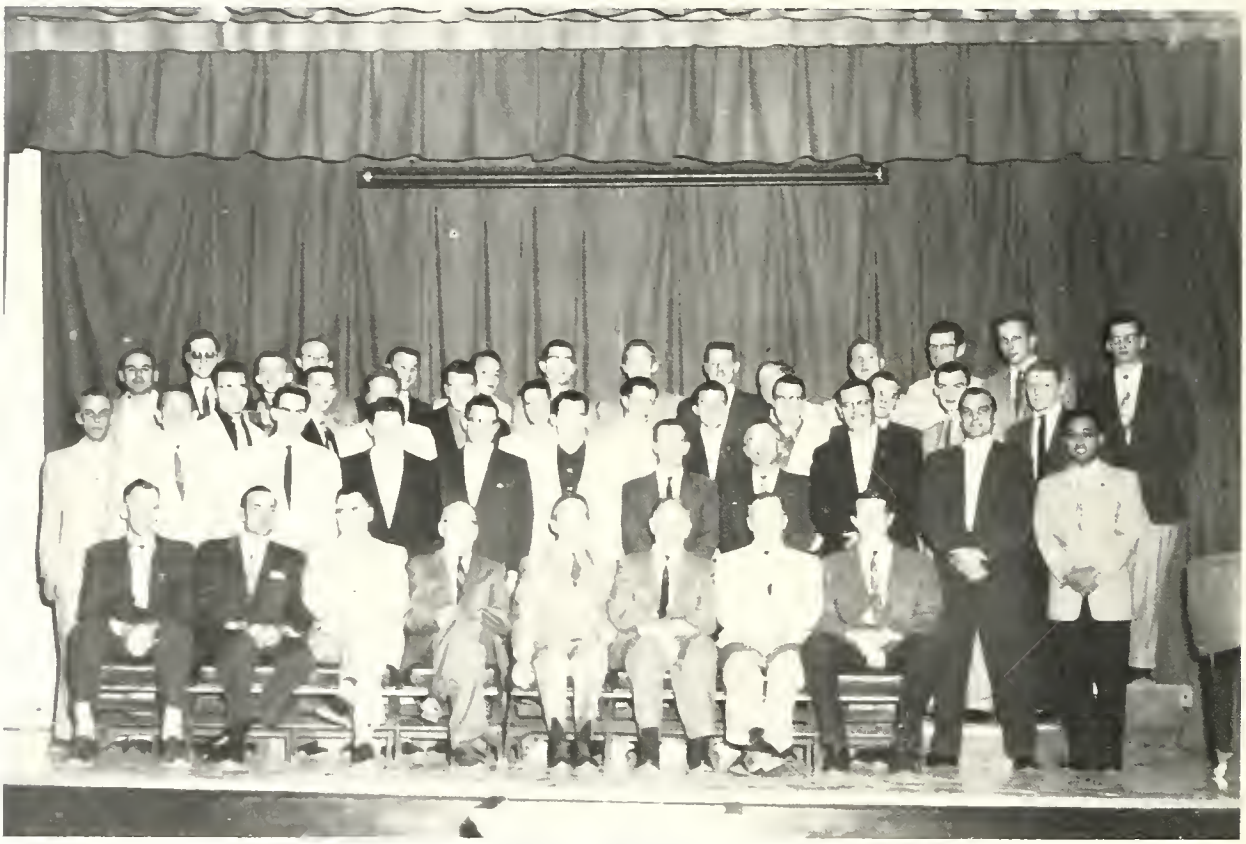
Magma Staff

R. Rowe.....Co-Editor
R. Wylie.....Sports Editor
W. Brown.....Co-Editor
J. Templin.....Business Manager
J. Trythall.....Activities Editor
G. Christenot.....Art Editor
M. Freebourn.....Business Manager
Not Pictured.....**D. Johnson,** Photographer

Amplifier Staff

R. Rowe.....Reporter
J. McVey.....Co-Editor
H. Duke.....Reporter
R. Wylie.....Co-Editor
J. Jones.....Business Manager
C. McLean.....Business Manager
G. Christenot.....Reporter
B. Todd.....Feature Editor
J. Trythall.....Campus Editor
W. Brown.....Reporter
J. Templin.....Reporter
D. Johnson.....Photographer
J. Freebourn, R. Rickman,
M. McKinnon.....Reporters
Not Pictured..... **W. Lees, M. Freebourn**

Anderson-Carlisle Society



Front row, left to right: F. Strandberg, R. Pierce, Prof. Vine, Prof. Adami, Dr. Koch, Dean McAuliffe, Prof. Stout, G. Parker. Second row: D. Johnson, R. Willey, K. Evans, C. Burtch, R. Dundas, R. Milhous, Prof. Harnish, Prof. McGlashan, R. Wayment, D. Hendricks, D. Tewtong. Back row: M. Carrizales, R. Frederick, A. Madrazo, A. Sawitke, D. Coppage, J. Langfeldt, D. Rasmussen, D. Schweitzer, D. Rovig, D. Macknight, M. McKinnon, B. Hansen, W. Lindstrom, R. Dokken, G. Zeising, A. Trimble, W. Lees, W. Painter, R. Hall, A. Rule, P. Sweeney, T. Martin L. Treiber, R. Banghart, J. Wallace.

Gordon Parker.....President
Ross Wayment.....V.P., Mining
Charles Burtch.....V.P., Metallurgy
Glenn Shurtz.....V.P., Petroleum
Donald Hendricks.....Secretary-treasurer
Prof. Stout.....Faculty Advisor

Copper Guards

Sitting, left to right: D. Rolfe, D. Roberts, D. Vincelette, G. Grandy, Standing: Prof. McCaslin, D. McMillan, E. Erickson, R. Garey, D. Wadman, D. Day, D. Rovig.

Richard Vincelette ..... Duke
Donald Rolfe ..... Chancellor
George Grandy ..... Scribe
Donald Roberts ..... Recorder
Prof. McCaslin ..... Faculty Advisor

International Club

Front row, left to right: M. Mohsin, J. Chellew, H. Duke, M. Carrizales, J. Frisbie. Back row: R. Schnell, D. Tewtong, R. Arauco, D. Cadwell, H. Zevallos, R. Azocar.

Miguel Carrizales.....President
Esfandiar Saeed.....Vice-president
Elaine Gilman.....Secretary
John Chellew.....Treasurer
Prof. R. I. Smith.....Faculty Advisor

South America in force.

Meeting of the minds.

Representing South Africa-America-Viet Nam.

Sigma Rho Fraternity

Front row, left to right: D. Tewtong, G. Blumfield, A. Trimble, D. Hendricks, R. Wayment, L. Treiber, R. Banghart, D. Rolfe. Second row: D. Malyevac, E. Erickson, G. Lanier, C. Plate, A. McIvor, B. Hansen, R. Felix, E. Nicholson. Back row: A. Walkup, G. Parker, R. Hall, J. Langfeldt, A. Rule, D. Coppages, T. Martin, P. Sweeney, D. Rovig, M. McKinnon.

Ross Wayment ..... Archon
Lawrence Treiber ..... Vice-Archon
Richard Banghart ..... Secretary
Donald Hendricks ..... Treasurer
Alfred Trimble ..... Scribe
George Blumfield ..... Sgt. at Arms
Prof. Albertson ..... Faculty Advisor

Visual aid to education.

Now here's the way we'll do it.

Sure three bid—deuce of hearts.

Coed Club

Front row, left to right: J. McVey, G. Christenot, M. Sullivan. Second row: C. Gardner, H. Duke, G. Sullivan, B. Todd. Back row: E. McCallum, J. Trythall, S. McGonigle, J. Dwyer, S. Dunlap.

Maribeth Sullivan ..... President
Gwen Christenot ..... Vice-president
Judy McVey ..... Secretary-treasurer
Mrs. L. L. McBride ..... Faculty Advisor

—and on weekends.

BWOC.

Why? HiFi.

Say Something!

Theta Tau Fraternity

Front row, left to right: L. Darsow, R. Hoar, D. Macknight, R. Rowe, P. Butler, Prof. Harnish. Second row: A. Madrazo, H. Treweek, R. Wylie, A. Puccinelli, A. Rathke, W. Painter, R. Arauco, J. Bato, D. Johnson. Back row: D. Diekman, W. Brown, G. Alexander, R. Roberts, M. Barnett, D. Cushing, A. Kerr, A. Sheldon, D. Schweitzer, G. Zeising.

Robert Rowe ..... Regent
Leonard Darsow ..... Vice-Regent
Donald Macknight ..... Scribe
Patrick Butler ..... Treasurer
Russell Hoar ..... Cor. Secretary
Prof. Harnish ..... Faculty Advisor

Community effort.

Barnett studies; files rest.

Convention time!

Newman Club

Front row, left to right: S. Dunlap, M. Sullivan, J. McVey, G. Sullivan. Back row: J. Hager, S. Postle, J. Dwyer, S. McGonigle, Father Byrne, Priest Director.

Under the guidance of Father Joseph Byrne, this group of M.S.M. Catholic students review the text "Moral Guidance," by Father Healy, during weekly meetings.

Mineral Club

Front row, left to right: W. Lindstrom, R. Evans, D. Rasmussen, J. Wallace, R. Nicholson. Back row: R. Dundas, R. Nordwick, W. Walker, R. Willey, M. McKinnon, R. Frederick.

Dave Rasmussen.....President
James Wallace.....Vice-president
Roger Evans.....Secretary-treasurer
Prof. F. N. Earll.....Faculty Advisor

M Club

Front row, left to right: E. Nicholson, D. Diekman, L. Darsow, G. Lanier, A. Walkup. Second row: R. Brady, R. Laughlin, G. Zeising, D. Ogrin, D. Zipperian. Back row: D. Rolfe, J. Yopps, G. Riley, R. Garey, K. Evans, R. Banghart.

Leonard Darsow ..... President
Gene Lanier ..... Vice-president
Duane Diekman ..... Secretary-treasurer
Prof. Simonich ..... Faculty Advisor

Cheerleaders

G. Christenot
B. Todd
S. Dunlap
J. Dwyer
J. McVey
J. Trythall

CHEERLEADERS

Statistics:

Two brunettes, two brownettes, one blonde, one redhead—ranging in height from 5'7½" to 5'4". All saucy pepsters who like the wearin' of the green—and orange!

Debate

B. Todd
G. Sullivan
M. Sullivan
D. Vincelette
D. Roberts, Debate Captain
J. Connell
Prof. Albertson, Advisor

DEBATE

The Montana School of Mines forensic squad is one of the oldest and most active organizations on the campus. This year the debate squad took part in five tournaments: The Gem State Jamboree (Pocatello), Columbia Valley (Pullman), Linfield Forensic Meet (McMinnville), Montana State Intercollegiate (this year at Dillon), and the T.K.A. (Missoula). In the past five years M.S.M. has been three times state winners.

Drama

M. Sullivan
H. Duke
R. Wayment
D. Malyevac
D. Hendricks
D. Diekman
G. Parker
B. Todd
T. Martin
E. McCallum
S. Postle
D. Zipperian
E. Nicholson
G. Maxwell
M. Barnett

DRAMA

Each year the Montana School of Mines produces a three-act play, showing two nights and attracting full houses. Such successful plays as "You Can't Take It With You," "The Silver Whistle," "All My Sons," and "Stalag 17" have been presented. This year's play was the popular "My Three Angels," whose three (often not so angelic) convicts, along with others of the cast, delighted their audiences.

Ski Club

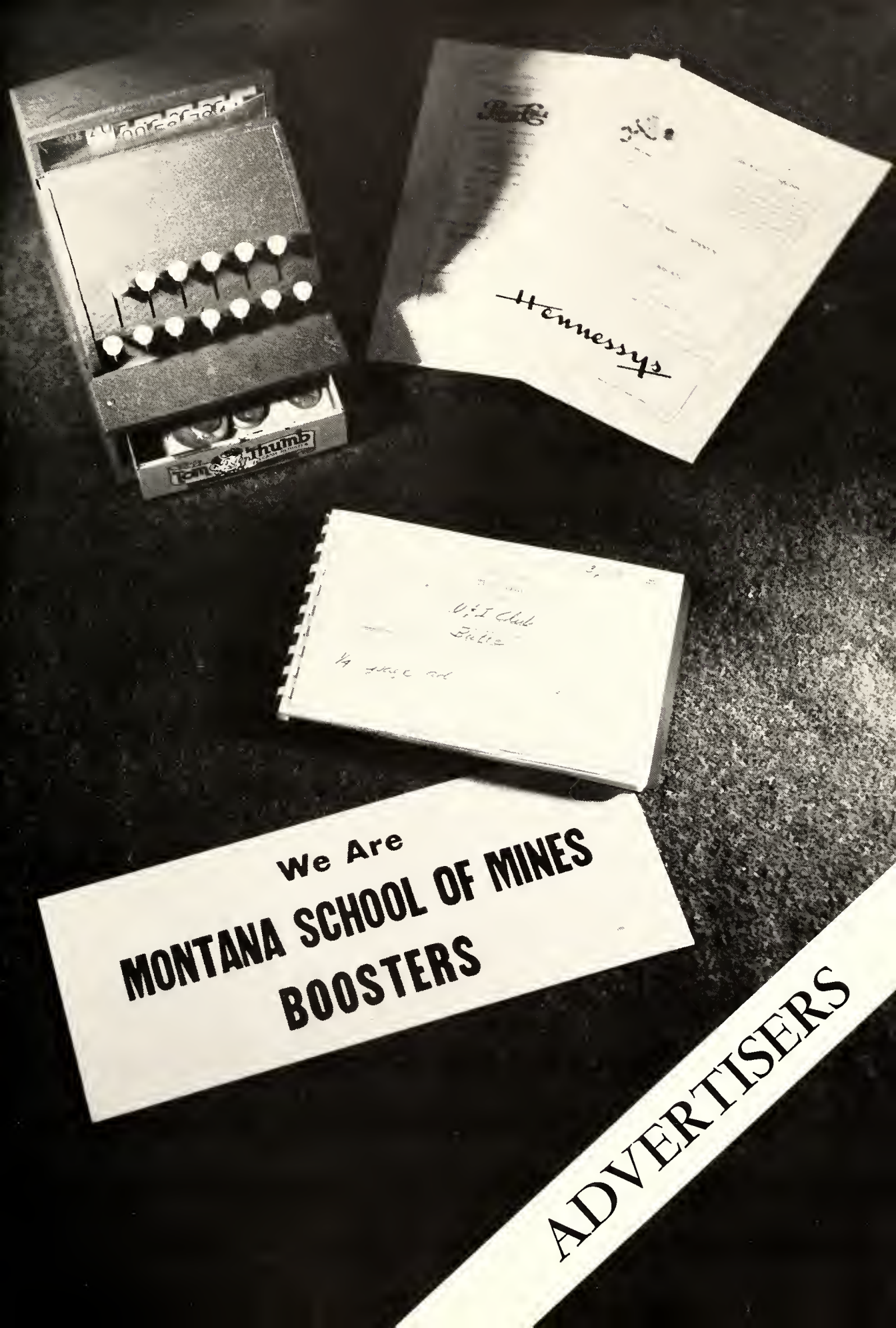
J. McVey
G. Alexander
A. McIvor
J. Connell
R. Schnell
M. Sullivan
R. Garey
J. Trythall
R. Willey
E. Erickson
R. Endresse
M. Barnett

SKI CLUB OFFICERS

Gary Alexander.....President
Al McIvor.....Vice-president
Judy McVey.....Secretary
Jim Connell.....Treasurer

AUTOGRAPHS

AUTOGRAPHS


Tom Thumb
Hennessys
We Are
MONTANA SCHOOL OF MINES
BOOSTERS
ADVERTISERS

Know Montana . . .

History-minded Montana

Montana became history-minded at an early period of its existence.

The Territory of Montana was created under Act of Congress which was approved May 26, 1864. Only 21 months later Col. Wilbur F. Sanders of Virginia City fame and his associates had brought about the passage of a measure creating an historical society.

The first meeting of the organization was held in the office of Dance and Stuart, Virginia City, on Feb. 25, 1865. The first president, temporary and permanent, was Granville Stuart. He also was the first treasurer. H. L. Hosmer was the first historian. The first board of directors was composed of Hosmer, Sanders, Malcolm Clark, Chris P. Higgins and Walter W. DeLacey. F. M. Thompson was chairman of the committee which nominated these officers. Stuart, Thompson and Hosmer were the members of the committee that selected the society's seal.

The society was created as exciting history was being made. There wasn't much historical material to work on, except the recollections of the trail blazers themselves.

However, the society did take a firm foothold in those early days and has maintained an existence without interruption.

For eight years the society depended upon individual effort in the collection of both material and funds. The first legislative appropriation was signed May 7, 1873, and provided for an annual payment of $150 for the purchase of manuscripts and books relating to the territory and for other expenses.

THE ANACONDA COMPANY

Compliments of —

SHINER'S FURNITURE STORE

Complete Home Furnishings

75-79 E. PARK BUTTE

Compliments

GORDON JEWELRY

KEEPSAKE DIAMONDS
LONGINES, WHITTNAUER, ELGIN
& GRUEN WATCHES

Easy Credit Terms
We Give S&H Green Stamps

12 N. MAIN Phone 2-3830

HOWIE'S SUPPER CLUB

3544 Harrison Ave. Phone 9741

Charcoal Broiled
Steaks—Bar-B-Q Ribs
Chicken—Seafoods
Prime Rib

LITTLE FOLKS SHOP

Sub-Teen

FRANCES H. RILEY

6 N. MAIN BUTTE, MONTANA

INFANTS' WEAR — TOYS —
NOVELTIES AND DOLLS

BURR'S

BUTTE ORTHOPEDIC APPLIANCE CO.

Hughbert DuBois Pearl DuBois

Artificial Limbs and Braces
Truss Fitting
Camp and Truform Supports
Lov-E Brassieres
Maternity Garments

9 SO. MONTANA ST.
PHONE 2-2213 BUTTE, MONTANA

Compliments of

FASHIONETTE

121 West Park Phone 2-6371

HORD'S JEWELRY

Diamonds—Watches—Repairing

79 West Park Street Butte, Montana

TRETHEWEY'S
MUSIC BOX

142 West Park St. Butte, Montana

Records — Hi-Fi
Music — Instruments

Compliments

MONTANA ABSTRACT
& TITLE CO.

Get More for Your Savings . . .

3½%

per annum current rate on the full amount of your
SAVINGS ACCOUNT

All deposits insured up to
$10,000
by U.S. Government agency.

PRUDENTIAL
Federal Savings

The Friendly Savings Institution
MAIN and BROADWAY BUTTE

GREETINGS

. . . AND BEST WISHES TO OUR FRIENDS

AT THE SCHOOL OF MINES

From All of Us at —

METALS BANK & TRUST COMPANY

Butte, Montana

BANK BY MAIL — DRIVE-IN AUTO BANK

Compliments of

LOUIS S. COHN CO.

Wholesale Cigars and Tobacco

BUTTE—GREAT FALLS—BILLINGS

MONTANA BAKERY

"Everything Fine
in the Pastry Line"

Phone 2-4301 605 W. Park

BUTTE, MONTANA

Montana Insurance

J. P. HACKETT

Complete Insurance
Service

211 W. PARK BUTTE, MONTANA

Compliments of

SPIER'S MEN'S STORE

"Chuck" Richards Remo J. Rochelle

Dress Right! You Can't Afford Not To

17 N. Main, Butte, Montana, Ph. 2-1761

You and I

Should Have a Pleasant Drink

at

THE U & I CLUB

Meet
Ed, Bernie and Andy

Mixologists
and
Pool Shooters

136 W. PARK ST.

PAUL S. JORDAN JEWELRY

Jewelry—Diamonds—Watches

116 W. PARK ST. PHONE 2-8040

Butte, Montana

Brown's Auto Parts and Machine Co.

110 W. Galena St. Phones 6504 & 6505
BUTTE — ANACONDA

Formerly
Northwestern Machine and Welders

Best Wishes
to the
Graduating Class

CHRISTY'S WALDORF FOODS

Phones 6537, 6538 120 W. PARK ST.

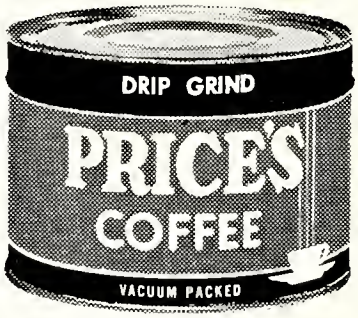
WEIN'S

Montana's Largest Men's Store

33 to 37 EAST PARK STREET

Satisfaction or Money Refunded

Now . . .
Vacuum
Fresh
In Cans



F. B. Price, Inc., Butte, Mont.

Main Rexall Drug

Reliable Prescription Druggists

Corner Park & Main Phone 7525
BUTTE, MONTANA

REXALL DRUGS

F. W. WOOLWORTH

In the Middle of Town

BUTTE, MONTANA

Compliments

Sheriff Bill Dalling and Deputies

★

KEENE'S SHOE CO.

You Wear Them Out —
We'll Fit You Out

BUTTE, MONTANA

Best Wishes to the Graduates

Miner's National Bank of Butte

THE MAIN STOPE LOUNGE

Northeast Corner Park & Main
4 North Main
BUTTE MONTANA

Montana's Most Unique Lounge
Equipped with—Primer House
& Powder House
A Mine in the Heart of Butte

Compliments

W. P. FULLER & CO.

Paints — Varnishes — Wallpaper
Glass and Mirrors

131 West Park St. Phone 2-2349

H. L. GREEN CO.

You Name It — We Have It

Uptown Butte

P & R DRUG

Butte's Foremost Cosmetic Center

37 WEST PARK PHONE 4767
BUTTE, MONTANA

FLORSHEIM
SHOE SHOP

19 W. Park Ph. 2-3676

"For the Man Who Cares"

WINTER GARDEN
LANES

112 So. Montana St.

Manhattan

Custom Fitted

Bowling Balls

Compliments . . .

FIRST NATIONAL
BANK
OF BUTTE

DICK'S TOY & HOBBY SHOP

Open Year Round

130 W. Park, Butte, Montana

Serving Southwestern Montana's Fashion Minded Women for Nearly a Half Century

EMIL MARANS

16 NO. MONTANA BUTTE
and
203 MAIN ANACONDA

LINDSAY'S SHOES

Weyenberg Shoes for Young Men

33 No. Main Butte, Montana

GAY'S RECORD SHOP

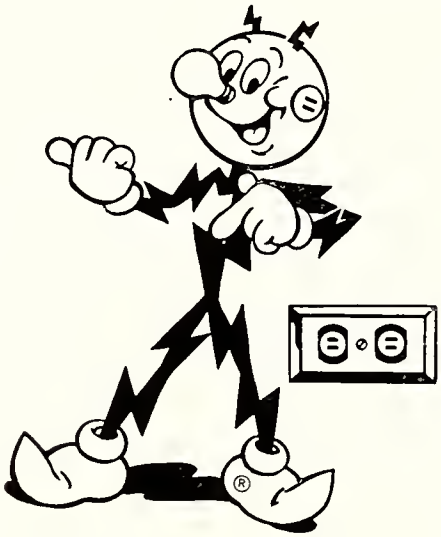
Spin Down and Spin a Disc

16 W. Park Butte, Montana

Today's Projects Mean Tomorrow's Progress

Montana Power is building today to satisfy your needs tomorrow. In just the past year, The Montana Power Company has completed many projects to bring Montanans all the power they need, when they need it and where they need it. Here are some of them:

* Cochrane Dam near Great Falls has been completed, adding 60,000 kilowatts of power to the Montana Power system capability.
* A 161,000-volt transmission line was built from Kerr Dam at Polson to Missoula.
* Electric and natural gas facilities in many local areas have been modernized or extended to improve service.
* A microwave communications system to improve electric and natural gas dispatching is nearly complete.



The Montana Power Company

and its predecessors have been serving Montana since the 1880's.

White's Funeral Home Inc.

307-311 W. Park
Rudy Sayatovic, Pres.

"Our Greatest Asset is Your Good Will"

Parking Facilities

Dial Butte, 6531
In Butte Since 1903

Compliments of

THE TOGGERY

Dan O'Neill

Men's & Boy's Shop

117 No. Main
BUTTE, MONTANA

JOHN H. CURTIS CO.

Real Estate Insurance & Mines

35 W. Granite St. Butte, Montana

PARK FLORISTS

J. D. and Eileen Flynn

Gifts of Distinction

Phone 3765
205 W. Park St. Butte, Montana

You Don't Have to Pay High Prices
at the
JO-ROSE SHOPPE
Where Stock Are Complete for
Juniors, Misses and Women in
COATS, SUITS, DRESSES, BLOUSES,
SKIRTS, HOUSE FROCKS,
MILLINERY, HANDBAGS,
HANDKERCHIEFS, HOSIERY

JO-ROSE SHOPPE

14 No. Main St. Butte, Montana

L & R ICE CREAM

517 W. Park Phone 9774

Ice Cream—Fountain—Candies

Marg Oren—Marianne Niemi

Williams Camera Shop

33 W. Park Butte, Montana

Complete Photographic Service

Phone 2-0454

BUTTE FLORAL Company

27 W. Broadway Phone 5431

Fred Honeychurch, Prop.

"I Have Always Been Interested in the Activities of the Student Body and Wish Lots of Success to the Graduating Class."

Mayor W. P. Donnelly

George Steele & Co.

Heating Equipment,
Maytag Appliances

Phone 5050, Butte
and
Phone LO 3-3781, Anaconda

Best Wishes to the Class of 1958

K.O.P.R.
"Copper"

BUTTE

Warehouse Furniture

"Where Quality Can Be Bought For Less"

843 So. Montana Phone 2-9965

Compliments of

GAMER'S shoes

"Montana's Largest Shoe Store"
BUTTE — HELENA

Compliments of

BOARD OF TRADE

New Columbia Floral

"Flowers for All Occasions — Artistically designed"

Phone 4142 47 W. Broadway

Monarch Lumber Co.

Jack Flanery, Proprietor

"The Store of Quality"

Chocolates **Pan Candies**

Shepperd's Sweets

2405 Harrison Ave. Phone 2-8721
BUTTE, MONTANA

Buttrey's Super Store

YOUR ONE STOP
SHOPPING CENTER

Kingsburger Drive In

2627 Harrison Ave. Butte, Montana

Hamburgers — Cheeseburgers — Hot Dogs—Ham Sandwiches With Baked Beans

Compliments of

Seven Up Bottling Co.

Bottlers of Seven Up — Coca-Cola and Orange Crush

You Always Pay Less for Cash at

IVAN'S

The Place to Go.

Farragut & Cobban

Compliments of

Rainbow Inn

Drinks Mixed to Your Liking

Highway Between Butte & Anaconda
Norma and Bus

Hennessy's

Montana's Favorite Shopping Center

BUTTE—LIVINGSTON

Bill Mahagin

TEXACO SERVICE STATION

Bill Mahagin—Tommy Quinlan

Pickup and Delivery — Marfak Lubrication — Tires — Batteries
Accessories — Washing

"WE GIVE S & H GREEN STAMPS"

202 So. Montana Phone 2-4223

Montana Owned and Montana Operated

TREASURE STATE
LIFE INSURANCE COMPANY

Extends Best Wishes to the Graduates of 1958

For a Good Time and at Little Cost Let
INTERMOUNTAIN LINES
Take Your Group to Any Place You Choose and at Any Time You Desire. Keep Your Group Together, It's Much More Fun! Safe, Courteous, Reliable Drivers! Modern, Comfortable, Luxury Buses. For Information, Call or Write

Intermountain Transportation Company

7-9 Main Street, Anaconda, Montana
Phone LOgan 3-3851

BILL'S MENS SHOP

For Men and Boys of Good Taste

29-31 West Park
BUTTE, MONTANA
Will Tiddy Ted Triniman

You'll Enjoy . . . New Quality Controlled . . .

BUTTE SPECIAL BEER

"Always in Good Taste"

BUTTE, MONTANA

Electrical Contracting

COPPER CITY ELECTRIC CO.

Phone 3602
2023 Harrison Ave. Butte, Montana

• Bring Your CURRENT Problems to Us

General Distributing Company

"Everything for Welding Anything"

12 West Galena Phone 2-6652

Compliments . . .

Marty's Alleys and Bar

1855 Harrison Ave. Phone 2-5400

DOWNEY DRUG

"Try Downey First"

1751 Harrison Avenue
Phones 2-1235 and 2-1234
BUTTE, MONTANA

We Give S & H Green Stamps

Frank Reardon's

PAY-N-SAVE Super Market

1741 Harrison Ave. Butte, Montana

"Where You Save Something on Everything."

GENERAL CONTRACTORS

Phone 4368

Cahill-Mooney Construction Company

1220 E. Front St. Butte, Montana

Education and Business

Education's Aim Is to Develop Thought

Our Aim Is to Develop Satisfied Customers, Trade Growth

THE MONTANA HARDWARE COMPANY

Butte (Wholesale Only) Great Falls

Western
Refrigeration Co.

Blanchard
BRAND
DELICIOUS

Compliments of

**Washoe and
Center Theaters**

ANACONDA, MONTANA

GREAT FALLS SELECT
Fine Beer

Reynolds Wholesale Co.

Ray J. Reynolds

200 Watson Ave. Butte, Montana

Phone 2-9193

**Leon & Eddie's
Drive-In**

1304 Harrison Avenue

In & Out

1317 Harrison Avenue

It Pays to Play

All Leading Brands of
ATHLETIC EQUIPMENT
Distributed by

**Treasure State
Sporting Goods**

22 E. PARK ST. PHONE 6120

Rand Trim-Tred Poll-Parrot

NEWMAN'S BOOTERY

76 E. PARK ST. PHONE 9555

NATIONALLY ADVERTISED SHOES FOR
MEN, WOMEN AND CHILDREN

Butte, Montana

Compliments . . .

NEWBRO DRUG

BUTTE, MONTANA

Don't Hesitate to Ask Questions–

They Bring Knowledge

If It Is a Question About Building, Repair or Remodeling,

Why Not Ask Our Competent Staff

THE INTERSTATE LUMBER COMPANY

Jerry's Distributing Co.

Blue Bell Potatoe Chips

"If We Haven't Got It —
You're Better Off Without It."

Phone 2-6770 345 S. Arizona St.

Donna-Belle Drive In

Sandwiches, Fountain etc.
Food to Go

Phone 2-7956 3301 Harrison Ave.

We're Here to Help You Get
What You Want

DALY BANK

ANACONDA, MONTANA

COMPLIMENTARY

DIANA HUGHES

GENE'S INC. PHIL JUDD'S

JOHN (Lover) TEMPLIN

MIKE (Spider) FREEBOURN

MONTANA SCHOOL OF MINES

BUTTE

'Where Theory and Practice Meet'; Courses leading to the B.S. Degrees of: Mining Engineering, Metallurgical Engineering, Metallurgical Engineering (Mineral Dressing Option), Geological Engineering (Mining Option), Geological Engineering (Petroleum Option), Petroleum Engineering. Graduate work is offered leading to the following Degrees: M.S. Mining Engineering, M.S. Metallurgical Engineering, M.S. Mineral Dressing, M.S. Geological Engineering, M.S. Petroleum Engineering. For catalog and application blanks write to the Registrar, **Montana School of Mines, Butte, Montana.**

(Ad inserted with the compliments of the Magma Staff)

PRINTING **LITHOGRAPHING** **RULING** **BINDING**

RUBBER STAMP SERVICE

OFFICE FURNITURE AND SUPPLIES

TRIBUNE PRINTING AND OFFICE SUPPLY

GREAT FALLS, MONTANA